

Figure E-10 Statutory Checklist

STATUTORY CHECKLIST [§58.35(a) activities]

for Categorical Exclusions and Environmental Assessments

Note: Review of the items on this checklist is required for both Categorical Exclusions under Sec. 58.35(a) and projects requiring an Environmental Assessment under Sec. 58.36. If no compliance with any of the items is required, a Categorical Exclusion [58.35(a)] may become "exempt" under the provisions of Sec. 58.34 (a) (12). In such cases attach the completed Statutory Checklist to a written determination of the exemption. Projects requiring an Environmental Assessment under Sec. 58.36 cannot be determined to be exempt even if no compliance with Statutory Checklist items is found. Three items listed at Sec. 58.6 are applicable to all projects, including those determined to be exempt.

Project Name and Identification No. 89 Cooper Street, Milford, Connecticut

Area of Statutory or Regulatory Compliance	Not Applicable to This Project	Consultation Required*	Review Required*	Permits Required*	Determination of consistency Approvals, Permits Obtained*	Conditions and/or Mitigation Actions Required	Provide compliance documentation. Additional material may be attached.
Document Laws and authorities listed at 24 CFR Sec. 58.5							
1. Historic Properties [58.5(a)] [Section 106 of NHPA]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Activities will not affect any historical property – See attached SHPO letter
2. Floodplain Management [58.5(b)] [Ex Or 11988] [24 CFR 55]	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The property is located in Flood Zone. All work to comply with the Flood Management Certificate and the General Permit required by the DEEP. See property location noted on the FEMA FIRMette Panel 0900C0529J, map revised July 8, 2013 (attached)
3. Wetland Protection [58.5 (b)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Site is located near an identified wetlands. See USFWS Wetland Inventory map. Local ILWL review approved for the removal of existing structures and construction of 3-story residence, see attached documentation
4. Coastal Zone Management [58.5(c)]	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Coastal Site Plan Review approved.
5. Water Quality – Aquifers [58.5(d)] [40 CFR 149]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No aquifers were identified in the area of the site on the CTDEEP GIS, See attached map
6. Endangered Species [58.5(e)] [16 U.S.C. 1531 et seq.]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	CT NDDDB not required. Endangered species list generated from USFWS (attached) indicated Roseate Tern, see attached FWS letter.
7. Wild and Scenic Rivers [58.5 (f)] [16 U.S.C. 1271 et seq.]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Per the CT DEEP there are no Wild and Scenic Rivers in the Town of Milford

Area of Statutory or Regulatory Compliance	Not Applicable to This Project	Consultation Required*	Review Required*	Permits Required*	Determination of consistency Approvals, Permits Obtained*	Conditions and/or Mitigation Actions Required	Provide compliance documentation. Additional material may be attached.
8. Air Quality [58.5(g)] [42 U.S.C. 7401 et seq.]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No asbestos material discovered at the site. Any air quality impacts should be short term and localized.
9. Farmland Protection [58.5(h)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Site has already been developed and no additional clearing is required for the rehabilitation
Manmade Hazards 10 A. Thermal Explosive [58.5(i)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	There will be no change in density or change of use. See attached letter from Milford Fire Department
10 B. Noise [58.5(i)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Not applicable per CPD-13-05. The site will be substantially restored to pre-disaster conditions
10 C. Airport Clear Zones [58.5 (i)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The property is not for sale and and is not located near the two regional airports, Tweed New Haven and Igor Sikorski
10 D. Toxic Sites [58.5 (i)(2)(i)]	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The site is NOT located on EPA Superfund National Priority or CERCLA lists or CT equivalent; there are no known non-residential underground fuel oil tanks; it is not known or suspected to be contaminated with toxic chemicals or radioactive materials;; the site is located within 3000 feet of a capped landfill that existed prior to the disaster. The site will be substantially restored to pre-disaster conditions which will include public water service.
11. Environmental Justice [58.5(j)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The site is NOT located within a predominately minority or low income neighborhood
Document Laws and authorities listed at Sec. 58.6 and other potential environmental concerns							
12 A. Flood Insurance [58.6(a) & (b)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Policy attached per federal regulations and program guidelines. Homeowner required to obtain and maintain flood insurance for a five year period as a prerequisite for assistance.
12 B. Coastal Barriers [58.6(c)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The only Coastal Barrier Zone in Miford is located at Nells Island and Duck Island in the southwest section of the town per FIRM Panels 09009C0528J and 09009C0536J both with effective date 7/8/2013. Also see attached map of the John Chaffe Coastal Barrier Resource System. Parcel is not located on FIRM panels above.
12 C. Airport Clear Zone Notification [58.6(d)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The property is not for sale and is not located within an Airport Clear Zone

Area of Statutory or Regulatory Compliance	Not Applicable to This Project	Consultation Required*	Review Required*	Permits Required*	Determination of consistency Approvals, Permits Obtained*	Conditions and/or Mitigation Actions Required	Provide compliance documentation. Additional material may be attached.
13 A. Solid Waste Disposal [42 U.S.C. S3251 et seq.] and [42 U.S.C. 6901-6987 eq seq.]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Solid waste impact is expected to be minimal as the scope of the project is limited to pre-storm building footprint.
13 B. Fish and Wildlife [U.S.C. 661-666c]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Project will not impact any water bodies
13 C. Lead-Based Paint [24 CFR Part 35] and [40 CFR 745.80 Subpart E]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	A survey of the site performed by JD Environmental LLC and determined that the level of lead-based paint below regulatory levels. See attached report.
13 D. Asbestos	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	A survey of the site performed by JD Environmental LLC and did not identified any ACM. See attached report.
13 E. Radon [50.3 (i) 1]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	It is not anticipated that radon will be present due to the nature of the geology of the area however, radon testing will be preformed upon completion of an enclosed ground level space (if applicable). Appropriate mitigation measure will be recommended as necessary.
13 F. Mold	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Mold testing was not preformed as the building will be demolished and the waste can be disposed of as construction debris
Other: State or Local 14 A. Flood Management Certification [CGS 25-68]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The property is located in Flood Zone. All work to comply with the Flood Management Certificate and the General Permit required by the DEEP. See property location noted on the FEMA FIRMette Panel 0900C0529J, map revised July 8, 2013 (attached) - See attached Appendix B
14 B. Structures, Dredging & Fill Act [CGS 22a-359 to 22a-363f]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Not Required - Property is not located on the seaward side of the Coast Jurisdiction Line (CJL)
14 C. Tidal Wetlands Act [CGS 22a-28 to 22a-35]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Activities do not require authorizations for DEEP OLISP Permitting sections
14 D. Local inland wetlands/watercourses [CGS 22a-42]	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Wetlands flagged by JMM Wetland Services
14 E. Various municipal zoning approvals	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Site Plan approval granted by the Milford Planning and Zoning Commission and ILWL – See attached letters dated July 21, 2014 and July 15, 2015 respectively.

DETERMINATION:

- ☐ This project converts to Exempt, per §58.349a)(12), because it does not require any mitigation for compliance with any listed statutes or authorities, nor requires any formal permit or license. Funds may be drawn down for this (now) EXEMPT project; **OR**
- ☒ This project cannot convert to Exempt because one or more statutes/authorities requires consultation or litigation. Complete consultation/mitigation requirements, publish NOI/RRORF and obtain Authority to Use Grant Funds (HUD 7015.16) per §58.70 and 58.71 before drawing down funds; **OR**
- ☐ The unusual circumstances of this project may result in a significant environmental impact. This project requires preparation of an Environmental Assessment (EA). Prepare the EA according to 24 CFR Part 58 Subpart E.

Prepared by:



Name:

Date

7/25/2014

Responsible Entity or designee Signature:

Hermia Delaire, CDBG-DR Program Manager

Date



Department of Economic and
Community Development

Connecticut
still revolutionary

10706

April 21, 2013

received
4-23-14

Hermia M. Delaire
Program Manager
CDBG - Sandy Disaster Recovery Program
Department of Housing
505 Hudson Street
Hartford, CT 06106

Subject: CDBG-DR Review
Proposed Rehabilitation of
89 Cooper Avenue, Milford, CT

Dear Ms. Delaire:

The State Historic Preservation Office has reviewed the information submitted for the above-named pursuant to the provisions of Section 106 of the National Historic Preservation Act of 1966.

Based on the information provided, the proposed work to the above-mentioned property will result in *no effect on historic properties*. The property is located within the proposed East Broadway National Register District, but it not contributing due to significant alterations.

For further information please contact me, at (860) 256-2766 or stacey.vairo@ct.gov.

Sincerely,

Stacey Vairo
Deputy State Historic Preservation Officer

State Historic Preservation Office

One Constitution Plaza | Hartford, CT 06103 | P: 860.256.2800 | Cultureandtourism.org

An Affirmative Action/Equal Opportunity Employer An Equal Opportunity Lender



MAP SCALE 1" = 500'



NFIP

PANEL 0529J

FIRM
FLOOD INSURANCE RATE MAP
NEW HAVEN COUNTY,
CONNECTICUT
(ALL JURISDICTIONS)

PANEL 529 OF 635

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

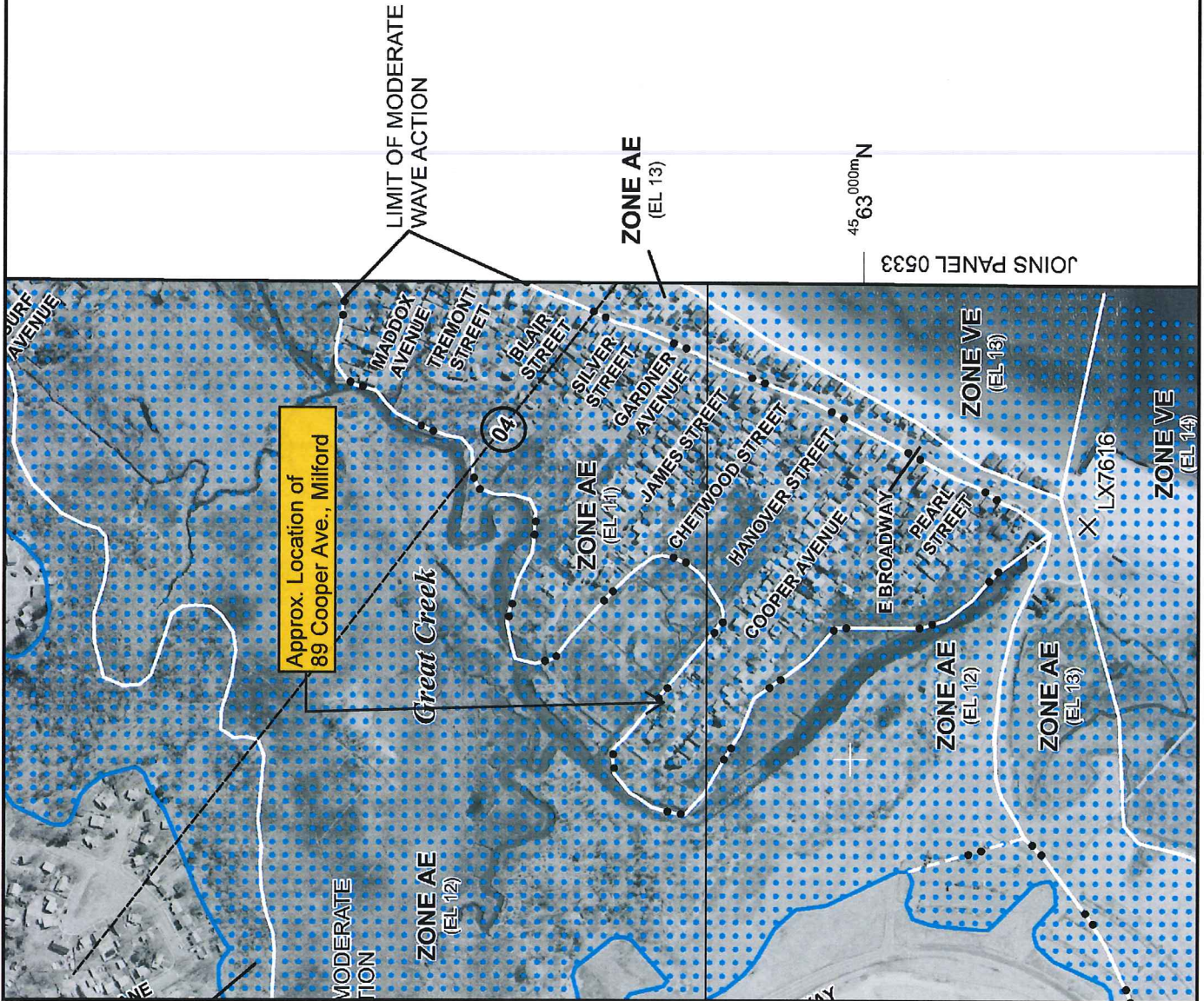
COMMUNITY	NUMBER	PANEL	SUFFIX
MILFORD, CITY OF	090082	0529	J

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.



MAP NUMBER
09009C0529J
MAP REVISED
JULY 8, 2013
Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov





Zone AE
(EL 12 Feet)

Zone AE
(EL 11 Feet)

Zone AE
(EL 13 Feet)

REFERENCE LAYERS

- NFHL Data Available
- FPM Panel Boundary
- LOMR Boundary

SPECIAL FLOOD HAZARD AREAS

- 1% Annual Chance Flood Hazard Zone A, AE, AH, AO, AN, AV, U, VE
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD

- 0.2% Annual Chance Flood Hazard Zone X
- Future Conditions 1% Annual Chance Flood Hazard Zone X
- Area with Reduced Flood Risk due to Levee Zone X
- Areas Outside the 0.2% Annual Chance Floodplain Zone X
- Areas of Undetermined Flood Hazard Zone D

CROSS SECTIONS & BFES

- 16.2 Cross Sections with 1% Annual Chance Water Surface Elevation
- 17.5 Cross Sections with 0.2% Annual Chance Water Surface Elevation
- Coastal Transect
- Coastal Transect Baseline
- Profile Baseline
- Base Flood Elevation

SUPPORTING INFORMATION

- Limit of Study
- Jurisdictional Boundary

89 Cooper Ave, Milford, CT 06460, USA

© 2013 Google

Pearl St

Hanover St

Cooper Ave

Chelwood St

Garth St

James St

Blair St

Tremont St

Silver Sands Park Rd

Silver Sands Park Way

480 ft

1991

Google earth

Imagery Date: 3/29/2012 lat: 41.203415° lon: -73.06632° elev: 2 ft eye alt: 2155 ft



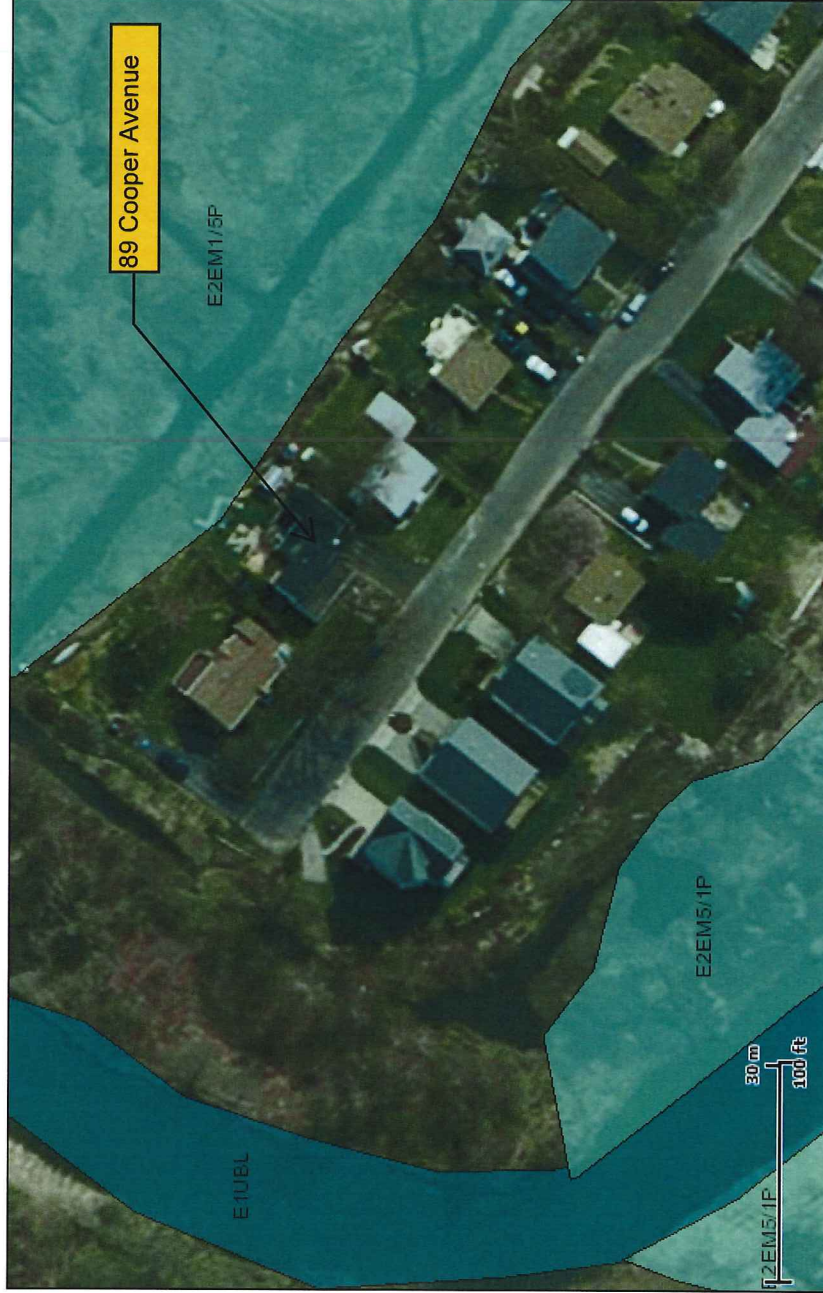
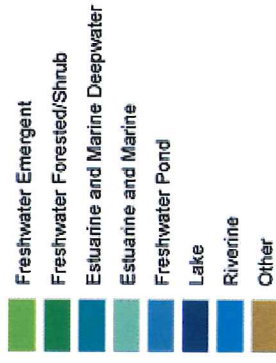
U.S. Fish and Wildlife Service

National Wetlands Inventory

89 Cooper Avenue,
Milford

May 7, 2014

Wetlands



This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

User Remarks:



City of Milford, Connecticut

- Founded 1639 -

70 West River Street - Milford, CT 06460-3317

Tel 203-783-3245 FAX 203-783-3303

Website: www.ci.milford.ct.us

E-mail: planning@ci.milford.ct.us

Planning and Zoning
Board

David B. Sulkis, A.I.C.P.
City Planner

July 21, 2014

Mr. Rafael A. Amaya, II
Amaya Architects
284 Racebrook Road
Orange, CT 06477

Re: 89 Cooper Avenue, Coastal Area Management Site Plan Review

Dear Mr. Amaya:

At its meeting held on July 15, 2014, the Planning and Zoning Board voted to approve your petition for a Coastal Area Management Site Plan Review to construct a single family residence on Map 26, Block 458, Parcel 51E, of which Laurie L. Robinson is the owner.

Approval is in accordance with the Coastal Area Management Site Plan Review prepared by Amaya Architects, dated 5/30/2014; surveys prepared by Scott K. Mundy, LS and building plans prepared by Amaya Architects, which are described as follows:

Sheet	Description	Date	Revised
	Property Survey	8/23/2008	3/14/2014
	Zoning Location Survey – Site Plan	8/23/2008	5/29/2014
A1	Foundation Plan	6/9/2014 *	-
A2	Floor, Roof & First Floor RCP and Wall Types	6/9/2014	-
A2.1	Enlarged Plans	6/9/2014	-
A3	Front and Side Elevations	6/9/2014	-
A3.1	Elevations	6/9/2014	-

The following correspondence from City Departments and the DEEP will apply:

Letter from MaryRose Palumbo, Inland Wetlands Officer, dated July 15, 2014; memo from Chris Saley, Director of Public Works, dated June 25, 2014; memo from Gary W. Wassmer, City Engineer, dated June 25, 2014; email from John Gaucher, DEEP, dated June 18, 2014; memo from Gary R. Baker, Assistant Chief/Deputy Fire Marshal, dated June 20, 2014.

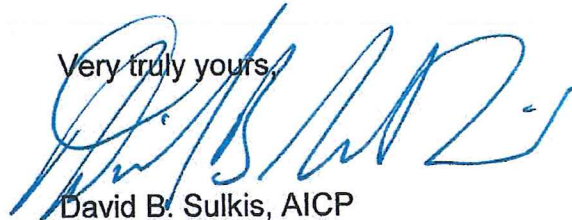
Rafael Amaya, II
July 21, 2014

-2-

Re: 89 Cooper Avenue - CAMSPR

Please provide this office with the full construction sets so that the Planning and Zoning Board set can be added to them and at that point a zoning permit can be issued. Please **do not include** in the construction sets the materials already provided to the Planning and Zoning office. All construction mitigations are required to be installed prior to the start of the project.

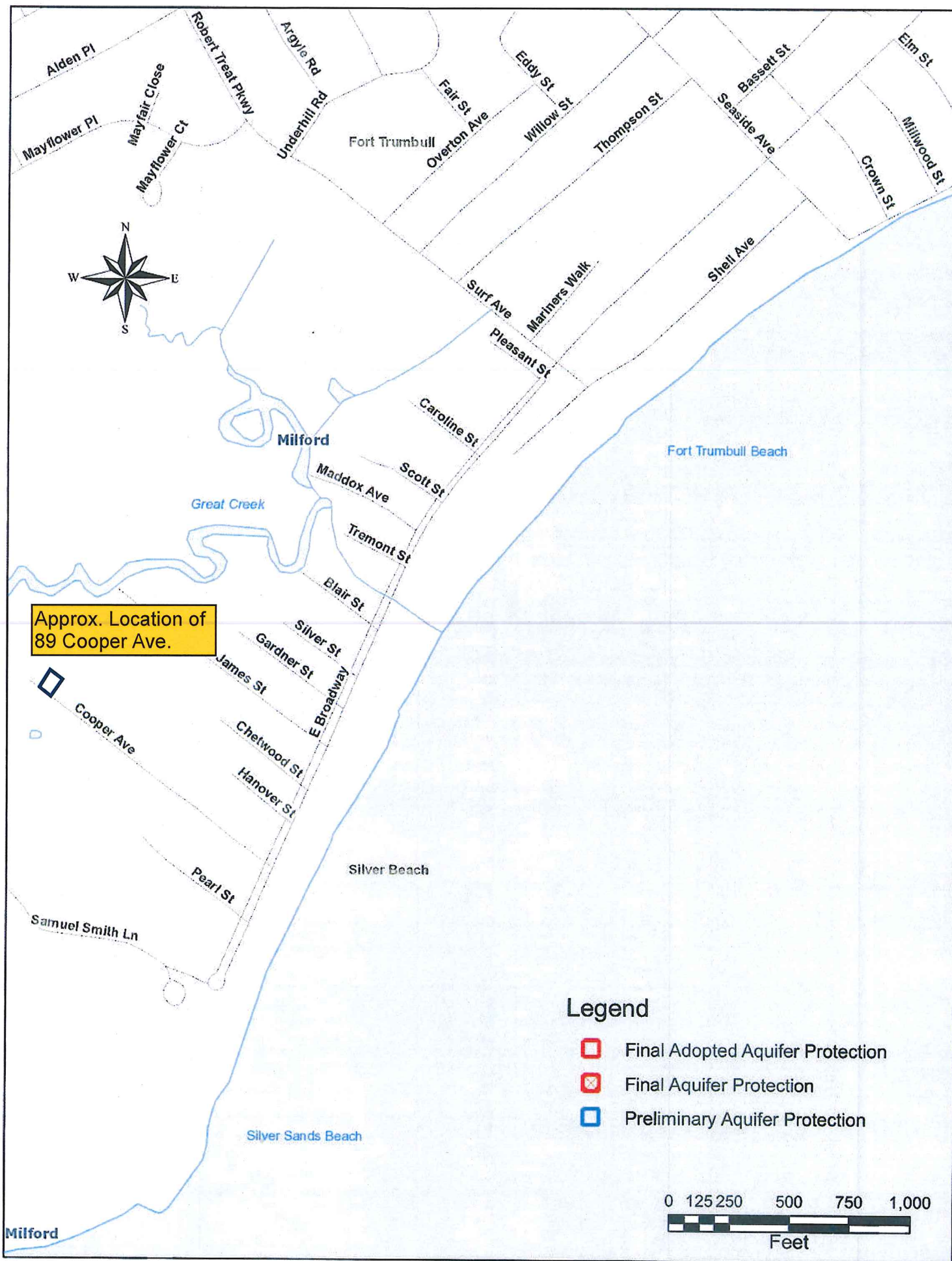
Very truly yours,



David B. Sulkis, AICP
City Planner

DBS/pl

Via Certified Mail





United States Department of the Interior

FISH AND WILDLIFE SERVICE
New England Ecological Services Field Office
70 COMMERCIAL STREET, SUITE 300
CONCORD, NH 3301
PHONE: (603)223-2541 FAX: (603)223-0104
URL: www.fws.gov/newengland



Consultation Tracking Number: 05E1NE00-2014-SLI-0342

June 03, 2014

Project Name: DOH 1070

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project.

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having

similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF>

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (<http://www.fws.gov/windenergy/>) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm>; <http://www.towerkill.com>; and <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment



United States Department of Interior
Fish and Wildlife Service

Project name: DOH 1070

Official Species List

Provided by:

New England Ecological Services Field Office
70 COMMERCIAL STREET, SUITE 300
CONCORD, NH 3301
(603) 223-2541
<http://www.fws.gov/newengland>

Consultation Tracking Number: 05E1NE00-2014-SLI-0342

Project Type: ** Other **

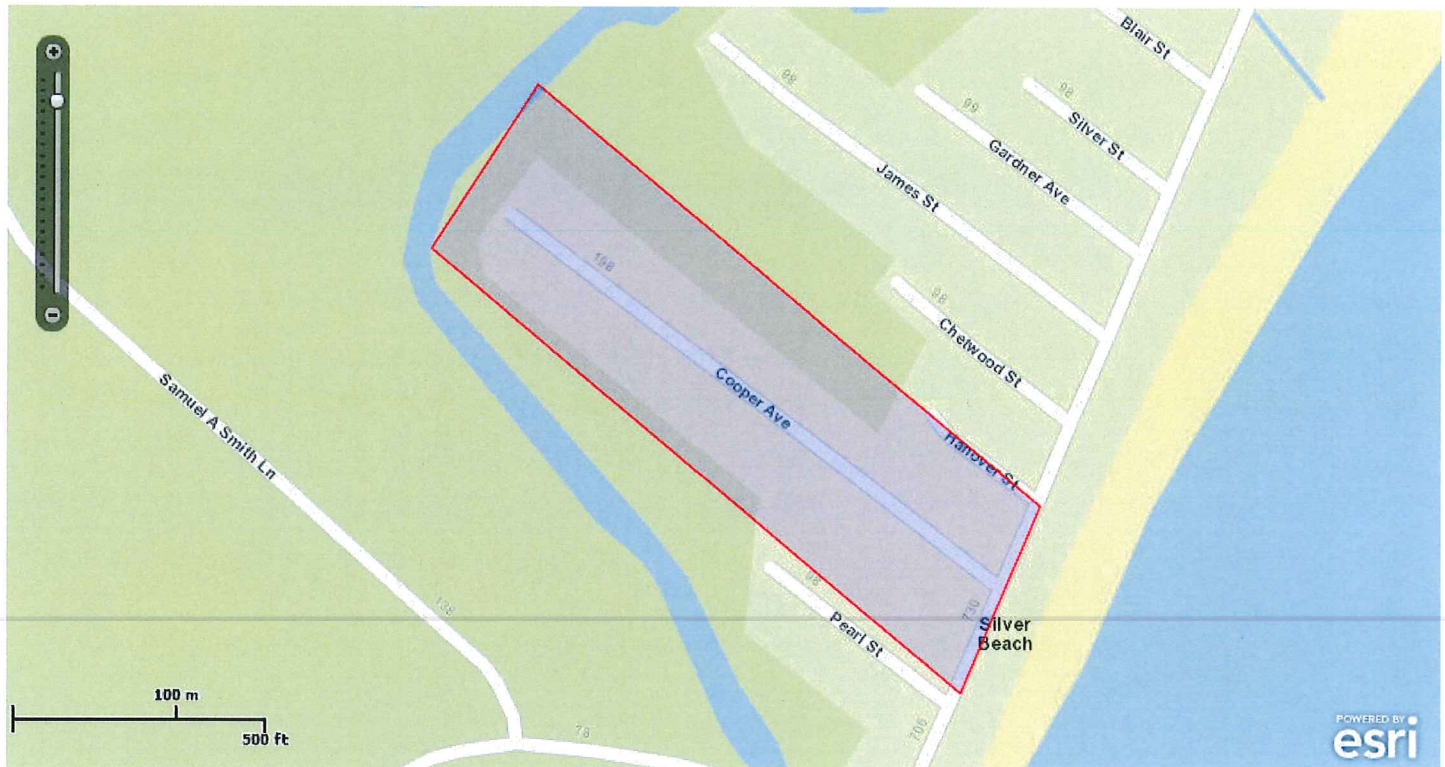
Project Description: 89 Cooper Avenue
Milford, CT



United States Department of Interior
Fish and Wildlife Service

Project name: DOH 1070

Project Location Map:



Project Coordinates: MULTIPOLYGON (((-73.0684161 41.2036171, -73.0676436 41.2045051, -73.0639872 41.2022231, -73.0645623 41.2012035, -73.0684161 41.2036171)))

Project Counties: New Haven, CT



United States Department of Interior
Fish and Wildlife Service

Project name: DOH 1070

Endangered Species Act Species List

There are a total of 1 threatened, endangered, or candidate species on your species list. Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Critical habitats listed on the **Has Critical Habitat** lines may or may not lie within your project area. See the **Critical habitats within your project area** section further below for critical habitat that lies within your project. Please contact the designated FWS office if you have questions.

Roseate tern (*Sterna dougallii dougallii*)

Population: northeast U.S. nesting pop.

Listing Status: Endangered



United States Department of Interior
Fish and Wildlife Service

Project name: DOH 1070

Critical habitats that lie within your project area

There are no critical habitats within your project area.



United States Department of the Interior



FISH AND WILDLIFE SERVICE

New England Field Office
70 Commercial Street, Suite 300
Concord, NH 03301-5087
<http://www.fws.gov/newengland>

January 7, 2014

To Whom It May Concern:

This project was reviewed for the presence of federally listed or proposed, threatened or endangered species or critical habitat per instructions provided on the U.S. Fish and Wildlife Service's New England Field Office website:

<http://www.fws.gov/newengland/EndangeredSpec-Consultation.htm>

Based on information currently available to us, no federally listed or proposed, threatened or endangered species or critical habitat under the jurisdiction of the U.S. Fish and Wildlife Service are known to occur in the project area(s). Preparation of a Biological Assessment or further consultation with us under section 7 of the Endangered Species Act is not required. No further Endangered Species Act coordination is necessary for a period of one year from the date of this letter, unless additional information on listed or proposed species becomes available.

Thank you for your cooperation. Please contact Maria Tur of this office at 603-223-2541 if we can be of further assistance.

Sincerely yours,

Thomas R. Chapman
Supervisor
New England Field Office



Milford Fire Rescue EMS/Safety/Hazmat



**To: Thomas Ivers, CDBG Coordinator
Community Development**

From: Captain Christopher Waiksnoris

Date: April 28, 2014

Subject: Thermal/Explosive/Toxic Hazards

Mr. Ivers,

A review of Milford Fire Department record and site review indicate there are no conditions present that would subject the above listed property to any foreseeable Thermal/Explosive/Toxic Hazard.

This information is provided only for the propose of the United Stated Department of Housing and Development to approve and fund a Community Development Block Grant application for the property listed as 89 Cooper Ave. This information may not be relied upon by any other person or organizations other than the United States Department of Housing and Urban Development.

If you have any questions please feel free to contact me.

Thank You

Captain Waiksnoris

Milford Fire Department
EMS HAZMAT SAFETY OFFICER
72 New Haven Ave
Milford Ct 06460
(203)783-3750
(203)996-2148

JOHN H. CHAFEE COASTAL BARRIER RESOURCES SYSTEM CONNECTICUT

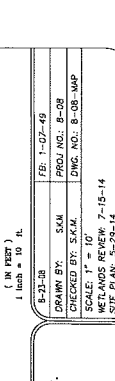
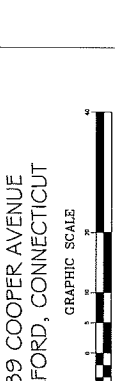
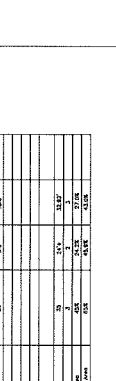
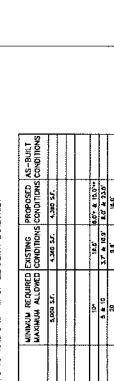
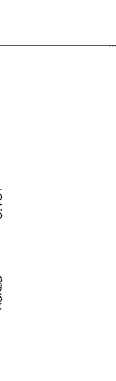
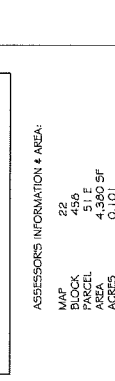
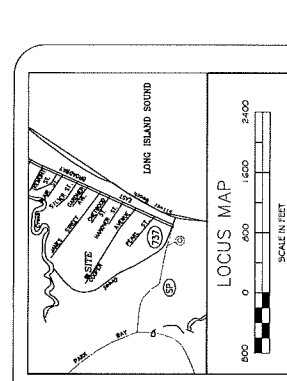
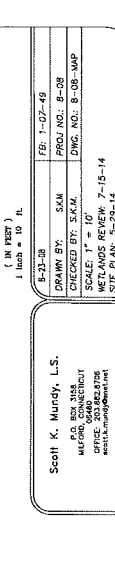
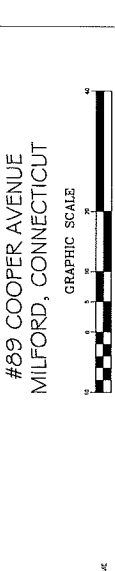
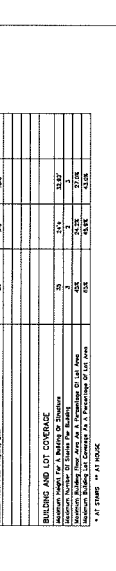
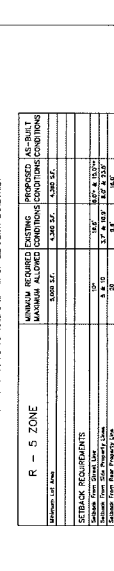
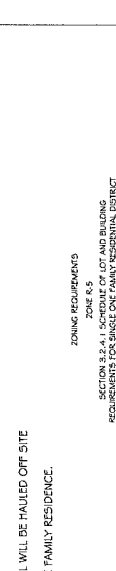
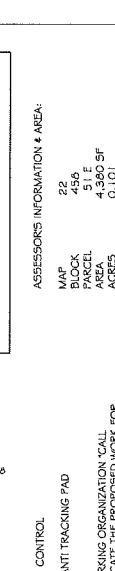
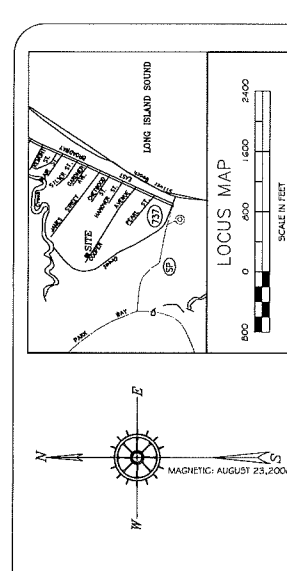
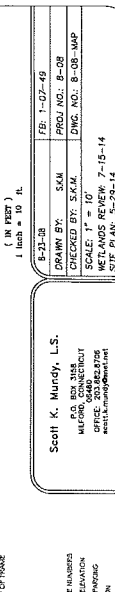
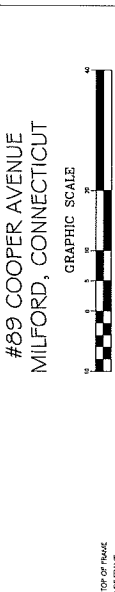
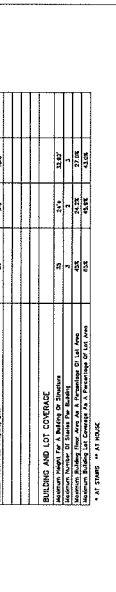
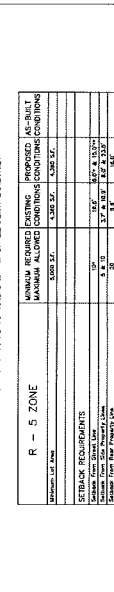
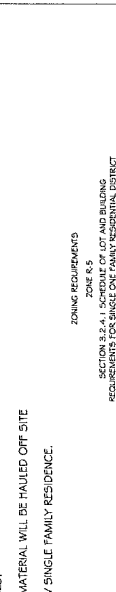
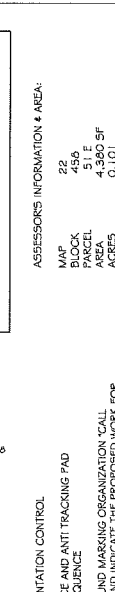
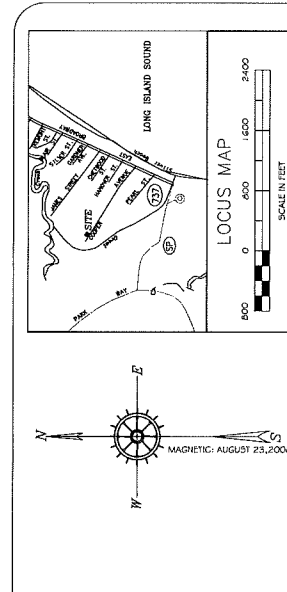
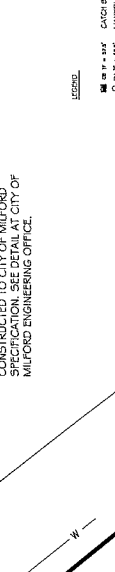
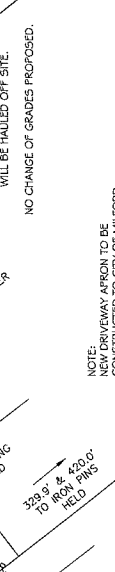
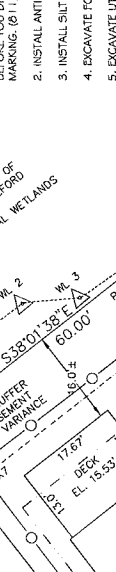
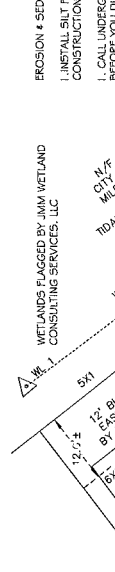
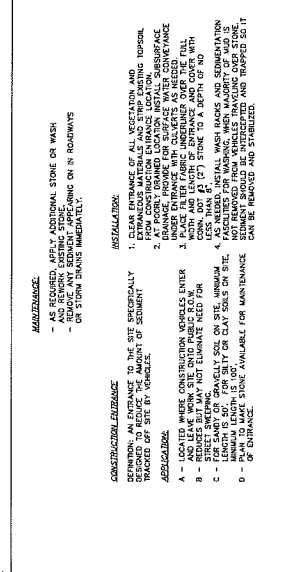
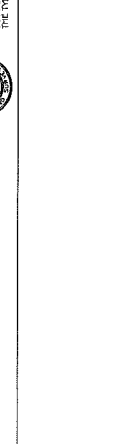
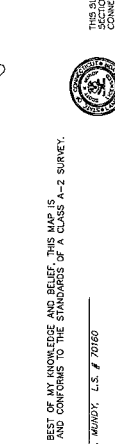
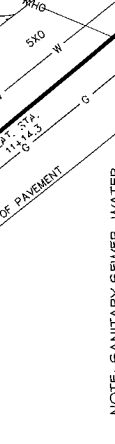
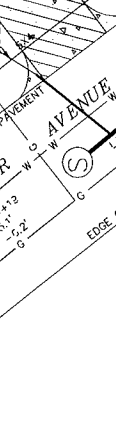
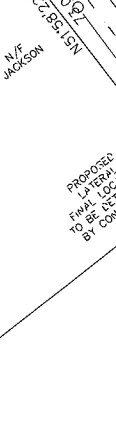
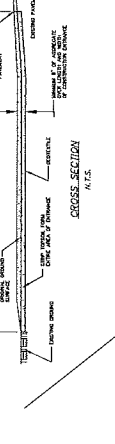
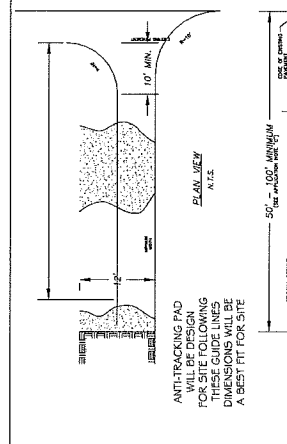
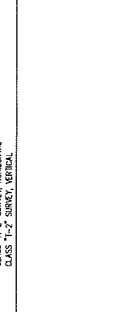
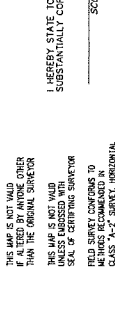
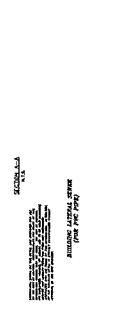
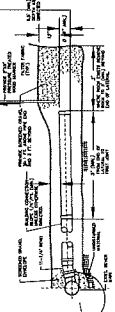
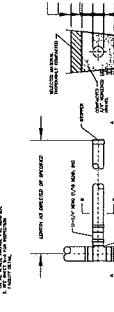
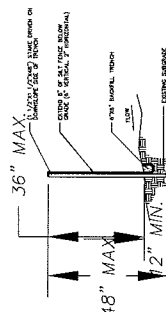


Number of CBRS Units:	32
Number of System Units:	25
Number of Otherwise Protected Areas:	7
Total Acres:	9,245
Upland Acres:	1,130
Associated Aquatic Habitat Acres:	8,115
Shoreline Miles:	22

Boundaries of the John H. Chafee Coastal Barrier Resources System (CBRS) shown on this map were transferred from the official CBRS maps for this area and are depicted on this map (in red) for informational purposes only. The official CBRS maps are enacted by Congress via the Coastal Barrier Resources Act, as amended, and are maintained by the U.S. Fish and Wildlife Service. The official CBRS maps are available for download at http://www.fws.gov/habitatconservation/coastal_barrier.html.

REFER TO THE FOLLOWING:

- MAPS:
1. MAP OF SHORE PROPERTY OWNED BY MARY J. BEADY, MILFORD, CONN., PREPARED BY V.B. CLARKE, DATED: APRIL 1912, ON FILE IN THE MILFORD TOWN CLERK'S OFFICE.
 2. UNDERGROUND UTILITIES, IF ANY ARE KNOWN.
 3. THE WORD "CERTIFY" IS AN EXPRESSION OF PROFESSIONAL OPINION BY THE LICENSED LAND SURVEYOR WHICH IS NOT A GUARANTEE OF THE ACCURACY OF THE SURVEY, AND SUCH CONSTITUTIONS NEITHER A GUARANTEE OR WARRANTY.
 4. REFERENCE IS HEREBY MADE TO STATE OF CONNECTICUT STATUTE § 12-13, REGARDING BUILDINGS MORE THAN 3 YEARS OLD.
 5. RECORD MAP DOES NOT SHOW AND FIELD EVIDENCE IS INADEQUATE. PROPERTY LINES ARE A BEST FIT OF ALL AVAILABLE EVIDENCE.
 6. SUBJECT PARCEL IS LOCATED IN FLOOD ZONE "X" OF § 12-13 OF CONN. CHROSCOS 251, DATED JULY 9, 2013, HAS NO DRAINAGE.
 7. PROPERTY IS SURVEYED AS IN POSSESSION.
 8. ELEVATIONS AS SHOWN HEREON ARE BASED ON A CITY OF MILFORD DATUM, 40 2.166 V.D. 1929 DATUM AND CONVERSION TO NAD 83.



JD Environmental LLC
6 Roosevelt Street
Hamden, CT 06514
203 314 9988
fax 203 248 3635

Client: Laurie Robinson
Property: 89 Cooper, Milford, CT
Purpose: TCLP
Date: Dec 13, 2013

On Nov 11, 2013, a Lead Inspector acquired samples from the structure that is being demolished. Toxicity Characteristic Leaching Procedure (TCLP) was conducted to determine the waste stream. These samples were delivered to an independent laboratory "Environmental Hazards Services, LLC", for TCLP (SW846, 1311/7420). EHS is a Connecticut Certified Public Health Laboratory for Lead and is nationally accredited by NIST and NVLAP. EHS will determine the content of lead in the waste stream. TCLP results above 5mg/L are considered hazardous materials and must go out as lead waste. TCLP results below 5mg/L are considered not hazardous materials and can go out as construction debris.

89 Cooper, Milford, CT TCLP results of 0.5 mg/L
This result is below the regulatory limit and the waste stream can go out as construction debris.

Respectively Submitted,

Janet Dorr

Janet Dorr
Lead Inspector Lic# 2123

JD Environmental LLC
6 Roosevelt Street
Hamden, CT 06514
203 314-9988



Date: Dec 13, 2013
Client: Laurie Robinson
Location: 89 Cooper, Milford, CT
Purpose: Pre demolition Asbestos Inspection

1.0 Introduction

On Nov 11, 2013, a licensed asbestos inspector employed by JD Environmental LLC, inspected the building scheduled for demolition located at 89 Cooper, Milford, CT. This inspection was conducted to comply with EPA NESHAP regulations, which mandates the complete removal of asbestos containing materials, which could be impacted by the building's demolition.

2.0 Existing Conditions

The residential property is a beach house. Damaged by hurricane Irene and remodeled afterwards. Next it was damaged by hurricane Sandy. There is sheet rock walls and ceilings. There is laminate, linoleum, hard wood, and tile on the floor. The roof has three layers of shingles. There is vinyl siding over wood. Baseboard heat with a gas furnace.

3.0 Asbestos containing Materials

On Nov 11, 2013, a State of Connecticut licensed asbestos inspector was dispatched to the site performed an asbestos inspection. During the visual and sampling process, suspect ACM was separated into three U.S. EPA categories. These categories are: Thermal Systems Insulation, Surfacing ACM and miscellaneous ACM. While performing the inspection, the inspector identified areas where representative samples of suspect ACM were identified and collected. The areas identified correspond to- any identified and observed during the on site investigation. 36 samples were collected from homogeneous areas that existed with at 89 Cooper, Milford, CT

Results are tabled below.

All bulk samples were delivered to an independent laboratory "Carolina Environmental Inc. or Environmental Hazards Services" for analysis. CEI and EHS will determine the content of asbestos using the EPA -endorsed Polarized Light Microscopy. CEI and EHS is a Connecticut Certified Public Health Laboratory for Asbestos and is national accredited by NIST and NVLAP. All ACM is quantities identified of ACM confirmed by bulk sample analysis are listed in the following sections of this report. Samples were collected in a manner sufficient to determine asbestos content, by Polarized Light Microscopy (PLM).

4.0 Discussion

Sample analyses results are reported in percentages of asbestos and non-asbestos components. The U.S. EPA defines any material that contains in excess of 1% of asbestos utilizing PLM as being asbestos-containing materials. Any materials that were found to contain asbestos in percentages less than 1% were further analyzed by the point counting. This method is accepted as providing statistically reliable results when concentrations are found to contain less than 1% by the point counting methods, then these samples are also determined to be non- asbestos containing.

4.1 Asbestos Containing Materials

The materials were confirmed to be asbestos building materials at 89 Cooper, Milford, CT

Location	Description	Amount
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**Abatement contractor to field verify the amount for estimating the project and for notification to the state.*

4.2 Non- Asbestos Containing Materials

The materials were confirmed not to be asbestos building materials at 89 Cooper, Milford, CT

Location	Description
Walls	Sheet rock & joint compound
Under siding	Vapor barrier
Roof	All three layers of shingles
Roof vent	Flashing
Front bed room	Linoleum
Gas furnace	Insulation
Back corner room	Floor tile and mastic
Rea room with cage	Floor tile and mastic
Front entry	Laminate tile

*** structure is to be demolished using excavator*

5.0 Conclusion

There is no confirmed asbestos building materials at 89 Cooper Rd in Milford, CT.

All asbestos containing building materials identified above must be removed from the structure prior to demolition. A State of Connecticut licensed abatement contractor must be retained to perform any abatement work. Visual inspection of the abatement areas by a State of Connecticut licensed Asbestos Project Monitor is required at the completion of the abatement work. If the residence is to be re-occupied for any reason then a PCM or TEM Clearance is required.

Respectively Submitted,

Janet Dorr

Janet Dorr

CT. St. Asbestos Inspector Lic. # 00494

JD Environmental LLC
6 Roosevelt Street
Hamden, CT 06514
203 314 9988
fax 203 248 3635

Client: Laurie Robinson
Property: 89 Cooper, Milford, CT
Purpose: TCLP
Date: Dec 13, 2013

On Nov 11, 2013, a Lead Inspector acquired samples from the structure that is being demolished. Toxicity Characteristic Leaching Procedure (TCLP) was conducted to determine the waste stream. These samples were delivered to an independent laboratory "Environmental Hazards Services, LLC", for TCLP (SW846, 1311/7420). EHS is a Connecticut Certified Public Health Laboratory for Lead and is nationally accredited by NIST and NVLAP. EHS will determine the content of lead in the waste stream. TCLP results above 5mg/L are considered hazardous materials and must go out as lead waste. TCLP results below 5mg/L are considered not hazardous materials and can go out as construction debris.

89 Cooper, Milford, CT TCLP results of 0.5 mg/L
This result is below the regulatory limit and the waste stream can go out as construction debris.

Respectively Submitted,

Janet Dorr

Janet Dorr
Lead Inspector Lic# 2123



May 30, 2014

Amaya Architects
284 Racebrook Rd
Orange, CT 06477

Attn: Rafael Amaya

RE: Hazardous Building Materials Survey for Proposed Renovations
Location: 89 Cooper Ave, Milford, CT
LEA Comm. No. 01MH4.08

Dear Mr. Amaya:

In accordance with our proposal, Loureiro Engineering Associates, Inc (Loureiro) conducted bulk material sampling and analysis of accessible suspect asbestos-containing materials (ACM's), lead-based paint testing and mold inspection in the dwelling located at 89 Cooper Ave, Milford, Connecticut. The purpose of the bulk sampling and analysis was to sample suspect materials prior to the proposed renovation of the site structure.

Please refer to Appendix A through B for analytical results and chain of custody forms.

If you have any questions as you review the report, please contact me at 860-410-2945.

Sincerely,

LOUREIRO ENGINEERING ASSOCIATES, INC.

Brett Nicholas
Industrial Hygienist

Jamie Roche
Director, Environmental Services

Enclosures:

- Appendix A Asbestos Laboratory Analysis Data
- Appendix B Mold Laboratory Results
- Appendix C Staff and Laboratory Certifications
- Appendix D JD Environmental Inspection Documents

Loureiro Engineering Associates, Inc.

100 Northwest Drive • Plainville, CT 06062 • 860.747.6181 • Fax 860.747.8822 • www.Loureiro.com

An Employee-Owned Company

1.00 INTRODUCTION

1.1 Purpose

Loureiro was retained by Amaya Architects to conduct bulk material sampling and analysis of accessible suspect asbestos-containing materials (ACM's), test surfaces for lead-based paint and conduct mold testing in the dwelling as needed that may be impacted by the proposed renovation of said dwelling. The asbestos inspection was completed in accordance with the Environmental Protection Agency (EPA) National Emissions Standards for Hazardous Air Pollutants (NESHAPS) 40 CFR part 61.

1.2 Special Terms and Conditions

Loureiro was contracted to perform an investigative survey of all accessible interior and exterior spaces. These areas included the living spaces, attic, porches, exterior areas and accessible roofing. Inaccessible areas were generally identified as above or behind documented finish materials. Estimated quantities and approximate locations of ACM's as presented were based on the visual observations at the time of the survey. Visual observations were made to determine the ACM quantities. Every attempt was made to locate all suspect materials. However, additional materials may be discovered above hard ceilings or behind walls during demolition or renovation. Loureiro performed limited destructive investigation for verification of any additional suspect materials. The Loureiro asbestos inspection was conducted to supplement a previous inspection conducted by JD Environmental of Hamden, CT.

2.0 ASBESTOS INVESTIGATIVE SURVEY

2.1 General Summary

The following asbestos survey section presents the survey results, methods, and conclusions based on survey findings. A summary of material descriptions, locations and quantities are presented in Table 1, below. Laboratory results are found in Appendix A.

2.2 Methodology

As required by the U.S. Occupational Safety & Health Administration (OSHA), the U.S. Environmental Protection Agency (EPA), and the State of Connecticut Department of Public Health (DPH), sampling was performed by an EPA AHERA-accredited and DPH-certified asbestos inspector (see Appendix D). Sampling was done in a manner to prevent airborne fiber release. Samples were placed in appropriately labeled containers that were sealed and submitted to the laboratory for analysis. The samples were submitted for petrographic analysis using the EPA-endorsed Polarized Light Microscopy with Dispersion Staining (PLM/DS) method. The percentage of asbestos present in each sample was determined by the visual area estimation technique.

Samples were collected using a wet technique to prevent airborne fiber release. Each suspect material was sampled using a knife to cut through its entire thickness to ensure that a complete cross

section was obtained. The sample was then placed in an appropriately labeled container, which was sealed and submitted to the laboratory for analysis.

Samples were submitted for petrography analysis using the EPA-endorsed Polarized Light Microscopy with Dispersion Staining (PLM/DS) method. The percentage of asbestos present in each sample was determined by the visual area estimation technique.

2.3 Results of Sampling and Analysis for Asbestos

The table below illustrates each type of suspect asbestos-containing material identified, whether the materials are classified as ACM or not ACM based upon the analytical results and the bulk sample chain of custody forms:

Table 1 – Loureiro and JD Environmental ACM Summary

Sample	Consultant	Description	Location	Quantity	Results
1a,b,c	Loureiro	Sheetrock Joint Tape	1 st Floor	N/A	Non-Detect
2a	Loureiro	Tar-Backed Paper on Fiberglass Batting	1 st Floor – Northwest Bedroom	N/A	Non-Detect
2b	Loureiro	Tar-Backed Paper on Fiberglass Batting	1 st Floor – Cage Room (Garage)	N/A	Non-Detect
2c	Loureiro	Tar-Backed Paper on Fiberglass Batting	2 nd Floor	N/A	Non-Detect
3a,b,c	Loureiro	Faux Beach-Wood Self-Stick Flooring	1 st Floor – Entry / Kitchen	N/A	Non-Detect
4a,b,c	Loureiro	Wall Tile Grout	1 st Floor – Kitchen	N/A	Non-Detect
5a,b,c	Loureiro	Fiberboard Sub-Floor	2 nd Floor	N/A	Non-Detect
6a,b,c	Loureiro	Cement Board behind Shower	1 st Floor – Shower	N/A	Non-Detect
7a,b,c	Loureiro	Fiberboard behind Aluminum Siding	Exterior	N/A	Non-Detect
8a,b,c	Loureiro	Paper Linoleum Underpayment Remnants	1 st Floor – Living Room	N/A	Non-Detect
9a,b,c	Loureiro	Blue / Grey Self-Stick Linoleum	1 st Floor – Living Room	N/A	Non-Detect
10a,b,c	Loureiro	Wall / Ceiling Texture Coat	1 st Floor – Northwest Bedroom	N/A	Non-Detect
11a,b,c	Loureiro	White Leveling Compound	1 st Floor – Living Room	N/A	Non-Detect
001-003	JD Environmental	Vapor Barrier	Location Not Specified	N/A	Non-Detect

004-006	JD Environmental	Vent Flashing	Location Not Specified	N/A	Non-Detect
007-009	JD Environmental	Linoleum	Location Not Specified	N/A	Non-Detect
010-012	JD Environmental	Middle Shingle	Location Not Specified	N/A	Non-Detect
013-015	JD Environmental	Bottom Shingle	Location Not Specified	N/A	Non-Detect
016-018	JD Environmental	Top Shingle	Location Not Specified	N/A	Non-Detect
019-021	JD Environmental	Gas Furnace - Tan	Location Not Specified	N/A	Non-Detect
022-024	JD Environmental	Joint Compound	Location Not Specified	N/A	Non-Detect
025-027	JD Environmental	Sheetrock	Location Not Specified	N/A	Non-Detect
028-030	JD Environmental	Flooring	Location Not Specified	N/A	Non-Detect
031	JD Environmental	Floor Tile	Location Not Specified	N/A	Non-Detect
-	JD Environmental	Mastic	Location Not Specified	N/A	Non-Detect
032	JD Environmental	Floor Tile	Location Not Specified	N/A	Non-Detect
-	JD Environmental	Mastic	Location Not Specified	N/A	Non-Detect
033	JD Environmental	Floor Tile	Location Not Specified	N/A	Non-Detect
-	JD Environmental	Mastic	Location Not Specified	N/A	Non-Detect
034	JD Environmental	Floor Tile	Location Not Specified	N/A	Non-Detect
-	JD Environmental	Mastic	Location Not Specified	N/A	Non-Detect
035	JD Environmental	Floor Tile	Location Not Specified	N/A	Non-Detect
-	JD Environmental	Mastic	Location Not Specified	N/A	Non-Detect
036	JD Environmental	Floor Tile	Location Not Specified	N/A	Non-Detect

-	JD Environmental	Mastic	Location Not Specified	N/A	Non-Detect
037	JD Environmental	Sheetrock / Joint Compound	Location Not Specified	N/A	Non-Detect
038	JD Environmental	Material Not Specified	Rear Entry	N/A	Non-Detect

Please refer to the Appendices specific to the Laboratory results and chain of custody forms.

3.0 LEAD-BASED PAINT SURVEY

The Lead-based paint survey was conducted with an XRF direct reading instrument in accordance with the Department of Housing & Urban Development (HUD) testing guidelines. These protocols were developed for residential or day care facilities and were adopted by the Connecticut Childhood Lead Poisoning Prevention Regulations (CLPPR). The Lead-paint reports were prepared using the CLPPR threshold of 1 mg/cm². Although most surface paints are reported as below the threshold of 1.0 mg/cm², the instrument recorded a result that indicates lead was present in limited locations but below the CLPPR threshold of 1.0 mg/cm².

The State of Connecticut and the U.S. Department of Housing and Urban Development (HUD) have developed technical guidelines for testing, abatement, cleanup, and disposal of lead-based paint in specific types of buildings such as public and Indian housing, and locations where children below the age of six years old reside. These guidelines define the regulated level of lead paint (Toxic Level of Lead) as paint containing greater than 1.0 milligrams lead per square centimeter (mg/cm²) of surface as measured on-site by an X-ray fluorescent analyzer or more than 0.50 percent lead by dry weight as measured by Atomic Absorption Spectrometry (AAS).

For the purposes of this report, all paints containing detectable amounts of lead are considered lead-based paints. This action is taken because OSHA regulates lead in construction based on airborne exposures and it cannot be ensured that lead paint with concentrations of lead less than 1.0 mg/cm² or 0.50% mass will not result in exposures exceeding the OSHA standard.

The table 2 illustrates confirmed locations with detectable amounts of lead:

Table 2 – Lead Paint - XRF Results

Room / Area	Component	Side	Paint Color	Substrate (Condition)	Results (mg/cm ²)
Entry / Kitchen	Wall	South	White	Sheetrock (Intact)	0.0
Entry / Kitchen	Beadboard	East	White	Wood (Intact)	0.0

Entry / Kitchen	Beadboard	North	White	Wood (Intact)	0.0
Entry / Kitchen	Glazed Paneling	West	-	Wood (Intact)	0.0
Entry / Kitchen	Skylight	-	Red	Wood (Intact)	0.0
Entry / Kitchen	Skylight	-	Yellow	Wood (Intact)	0.0
Entry / Kitchen	Skylight	-	Silver	Wood (Intact)	0.08
Entry / Kitchen	Paneling	-	Red	Wood (Intact)	0.0
Entry / Kitchen	Door Trim	-	Red	Wood (Intact)	0.0
Entry / Kitchen	Cabinets	-	Red	Wood (Intact)	0.0
South, Cage Room	Trim	North	White	Wood (Intact)	0.0
South, Cage Room	Trim	South	White	Wood (Intact)	0.0
South, Cage Room	Trim	East	White	Wood (Intact)	0.0
South, Cage Room	Trim	West	White	Wood (Intact)	0.0
South, Cage Room	Door Molding	North	White	Wood (Intact)	0.0
South, Cage Room	Sole Plate	North	White	Wood (Deteriorated)	0.0
South, Cage Room	Wall	West	Orange	Sheetrock (Partially Demolished)	0.06
Entry / Kitchen	Entry Door	West	Light Blue	Metal (Intact)	0.0
Mechanical Room	Ceiling	-	White	Sheetrock (Intact)	0.0
Living Room	Entry Door Trim	-	Green	Wood (Intact)	0.0
Living Room	Entry Door (Inner)	-	Green	Metal (Intact)	0.0
Living Room	Entry Door (Outer)	-	Light Blue	Metal (Intact)	0.0

Living Room	Entry Door and Window Trim	-	Light Blue	Wood (Intact)	0.0
Living Room	Entry Beadboard	-	Light Blue	Wood (Intact)	0.0
Hallway	Wall	-	Green	Sheetrock (Partially Demolished)	0.06
Bathroom	Wall	North	White	Sheetrock (Intact)	0.0
Bathroom	Wall	South	White	Sheetrock (Intact)	0.0
Bathroom	Wall	East	White	Sheetrock (Intact)	0.0
Bathroom	Wall	West	White	Sheetrock (Intact)	0.0
Bathroom	Ceiling	-	White	Wood (Intact)	0.0
Bathroom	Base Board	North	White	Wood (Intact)	0.0
Living Room	Iron Stairs	-	Black	Metal (Corroded)	0.13
Northwest Bedroom	Closet Wall	West	White	Wood Beadboard (Intact)	0.0
Northwest Bedroom	Closet Wall	East	White	Wood Beadboard (Intact)	0.0
Northwest Bedroom	Closet Wall	South	White	Wood Beadboard (Intact)	0.0
Northwest Bedroom	Closet Ceiling	-	White	Sheetrock (Intact)	0.0
Northwest Bedroom	Textured Ceiling	-	White	Sheetrock (Intact)	0.08
Northeast Bedroom	Wall	North	White	Sheetrock (Intact)	0.0
Northeast Bedroom	Wall	South	White	Sheetrock (Intact)	0.0
Northeast Bedroom	Wall	East	White	Sheetrock (Intact)	0.0
Northeast Bedroom	Wall	West	White	Sheetrock (Intact)	0.0
Northeast Bedroom	Ceiling	-	White	Sheetrock (Intact)	0.0

Northeast Bedroom	Closet Door	-	White	Wood (Intact)	0.0
Northeast Bedroom	Closet Door Molding	-	White	Wood (Intact)	0.0
Second Floor	Beadboard	North	White	Wood (Intact)	0.0
Second Floor	Beadboard	South	White	Wood (Intact)	0.0
Second Floor	Beadboard	East	White	Wood (Intact)	0.0
Second Floor	Beadboard	West	White	Wood (Intact)	0.0
Second Floor	Wall	North	Blue	Sheetrock (Intact)	0.0
Second Floor	Tongue & Groove Ceiling Boards	-	Light Blue	Wood (Intact)	0.0
Second Floor Bathroom	Beadboard	North	White	Wood (Intact)	0.0
Second Floor Bathroom	Beadboard	South	White	Wood (Intact)	0.0
Second Floor Bathroom	Beadboard	East	White	Wood (Intact)	0.0
Second Floor Bathroom	Beadboard	West	White	Wood (Intact)	0.0
Second Floor North Room	Beadboard	North	Brown	Wood (Intact)	0.0
Second Floor North Room	Beadboard	South	Brown	Wood (Intact)	0.0
Second Floor North Room	Beadboard	East	Brown	Wood (Intact)	0.0
Second Floor North Room	Beadboard	West	Brown	Wood (Intact)	0.0
Second Floor North Closet	Wall	North	White	Sheetrock (Intact)	0.0
Second Floor North Closet	Wall	South	White	Sheetrock (Intact)	0.0
Exterior	Aluminum Siding	North	White	Aluminum (Intact)	0.73
Exterior	Aluminum Siding	South	White	Aluminum (Intact)	0.68

Exterior	Aluminum Siding	East	White	Aluminum (Intact)	0.63
Exterior	Aluminum Siding	West	White	Aluminum (Intact)	0.72
Exterior	Original Siding	Northwest	White	Wood (Deteriorated)	2.84

4.0 MOLD

Loureiro observed mold growths on the kitchen beadboard walls and remaining sheetrock within the northwest bedroom of the dwelling. The visually impacted surfaces were sampled with a sterile swab and analyzed via direct microscopic examination in order to determine mold type and relative concentration of the mold. The samples were labeled and delivered with a Chain of Custody to EMSL, which is located in Wallingford, CT. The samples were analyzed by direct examination optical microscopy for mold species identification and quantification. EMSL is an AIHA approved Laboratory.

Laboratory testing confirmed the presence of *Aspergillus* / *Penicillium*, *Alternaria*, *Chaetomium*, *Cladosporium*, *Scopulariopsis* and *Ulocladium* molds in high to low concentrations on the surfaces sampled. Hyphal or fruiting structures were also present indicating active mold colonies. These mold types along with the high presence of hyphal structures, indicates that continued mold growth is likely. Microbiological growth can produce offensive odors and can produce upper respiratory allergy-like symptoms if it is disturbed and the spores inhaled.

- *Aspergillus* / *Penicillium* are mold species that are often present in water that creates mycotoxins, and is a main contributor to the development of harmful bacteria. Continued exposure to this mold may also lead to bronchitis and pulmonary disease.
- *Alternaria* are also common allergens in humans, growing indoors and causing hay fever or hypersensitivity reactions that sometimes lead to asthma. Many human health disorders can be caused by these fungi.
- *Chaetomium* is rarely associated with human infections.
- *Cladosporium* is rarely infectious to humans, but has been reported to cause infections of the skin and toenails, as well as sinusitis and pulmonary infections.
- *Scopulariopsis* is rarely associated with human infections. However, numerous species of *Scopulariopsis* have been known to cause infection of the nails.
- *Ulocladium* Species of this genus contain both plant pathogens and food spoilage agents. They can cause hay fever and more serious infections in immuno-suppressed individuals.

REPORT LIMITATIONS CRITERIA

Information contained in this report is based on site observations, sample results relevant to the scope of work for this survey. Conclusions of this report are based on the survey, study, and/or

investigation. This is not to be interpreted as a complete compilation of all existing information pertaining to the site conditions.

It should be noted that site conditions observed during this investigation may change based on any number of influencing factors and/or environmental variables such as fluctuations in indoor and outdoor temperatures, humidity and seasonal changes in sunlight. These factors can influence the spread and concentration of molds as they change. The attached report and analytical data materials are not intended to guarantee that the investigated site is, or is not, free from conditions, which could pose a threat or hazard to human health or safety. Should further research on the site be conducted, any additional data should be submitted to Loureiro for review and revisions as necessary.

This report is intended for the sole use of the Client, and may not be used or relied upon by others without the written consent of the Client. The scope of work conducted in performing this service for the Client may not be appropriate to satisfy the needs of other Parties, and the use or re-use of this document or the findings, conclusions, or recommendations is at the risk of said user.

The criteria used to evaluate the survey results includes, but is not limited to, guidelines recommended by the:

- American Conference of Governmental Industrial Hygienists (ACGIH);
- The American Society for Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE);
- The U.S. Environmental Protection Agency (EPA);
- The American Industrial Hygiene Association (AIHA);
- The American Indoor Air Quality Council (AIAQC);
- Indoor Environmental Standards Organization (IESO);
- The Institute of Inspection Cleaning and Restoration Certification (IICRC);
- The National Air Duct Cleaners Association (NADCA);
- The New York City Department of Health;

Any comments and/or questions in regards this report should be directed to Loureiro Engineering.

Table 4 – Mold Summary Results

Sample No. / Location	Fungi Detected	Fungi Concentration	Comments
Sample 1 Kitchen Beadboard	Aspergillus / Penicillium	*High*	*Active Colonies
	Chaetomium	Rare	
	Cladosporium	*High*	*Active Colonies
	Scopulariopsis	*Medium*	*Active Colonies
	Ulocladium	*Rare*	*Active Colonies
Sample 2 Northwest Bedroom Walls	Alternaria	*Rare*	*Active Colonies
	Aspergillus / Penicillium	*High*	*Active Colonies
	Cladosporium	*High*	*Active Colonies
	Scopulariopsis	*Medium*	*Active Colonies



5.0 RECOMMENDATIONS

In accordance with the OSHA regulations (29 CFR Part 1926.1101 and 1910.1001), all potential contractors bidding on work must first be informed of the results of this survey. In addition, notification regarding the presence of the ACM must be provided to all employees and tenants who occupy an area containing ACM.

All materials identified as negative for asbestos may be removed at will and disposed of as standard construction debris as long as they do not impact or disturb identified asbestos materials.

During any renovation or demolition process, safe work procedures must be implemented by properly lead-paint trained workers employed by contractors to address worker protection, lead exposure controls, waste stream management, and ambient air quality monitoring. Specifically, contractors will be required to comply with all applicable OSHA regulations including 29 CFR 1926.62, "Lead Exposure in Construction: Interim Final Rule" and 29 CFR 1926.59, "Hazard Communication for the Construction Industry". In addition, pre-disposal lead-waste testing requirements must be complied with.

Loureiro recommends that a competent mold remediation contractor be employed to mitigate the surfaces impacted by mold growths.

Per the HUD and Connecticut regulations Toxic Levels of lead-paint ($>1.0 \text{ mg/cm}^2$) were identified in the dwelling tested. Measurable levels of lead were detected in painted surfaces. OSHA regulations require personal protective equipment (PPE) or proper engineering controls for procedures such as dry scraping or sanding that may generate lead emissions. Loureiro recommends wet sanding or the use of local exhaust ventilation with High Efficiency Particulate Air (HEPA) filtration during preparation procedures prior to repainting should any lead-paint be disturbed during renovation.

Lead-Painted Components	Quantity
Original Siding (under Aluminum)	~960 S.F.

At the time this report was written, the scope of work for 89 Cooper Ave, Milford, CT will include a complete demolition of the dwelling. As such, abatement of lead-based paint is not regulated. It is the conclusion of Loureiro to conduct a Toxic Characteristic Leaching Process (TCLP) test on the waste stream after the dwelling has been demolished. The results of the TCLP-Lead sampling will be compared to the characteristic hazardous waste concentrations contained in Table 1 of Title 40 of the Code of Federal Regulations (CFR) Part 261.24, Appendix B.

Appendix A

Asbestos Laboratory Analysis Data

**EMSL Analytical, Inc.**

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EMSL Order: 241401726

CustomerID: LOUR62

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ProjectID:

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Plainville, CT 06062

Phone: (860) 747-6181
Fax: (860) 747-8822
Received: 05/12/14 10:10 AM
Analysis Date: 5/14/2014
Collected: 5/9/2014

Project: 89 COOPER AVE, MILFORD CT

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos	
			% Fibrous	% Non-Fibrous	% Type	
050914-1A 241401726-0001	1st floor - sheetrock joint tape	White Fibrous Homogeneous	95% Cellulose	5% Ca Carbonate 0% Non-fibrous (other)		None Detected
050914-1B 241401726-0002	1st floor - sheetrock joint tape	White Fibrous Homogeneous	98% Cellulose	2% Ca Carbonate 0% Non-fibrous (other)		None Detected
050914-1C 241401726-0003	1st floor - sheetrock joint tape	Tan Fibrous Homogeneous	90% Cellulose	5% Ca Carbonate 5% Non-fibrous (other)		None Detected
050914-2A 241401726-0004	Front bedroom - tar-backed paper on fiberglass batting	Tan/Black Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (other)		None Detected
050914-2B 241401726-0005	Cage room (garage) - tar- backed paper on fiberglass batting	Tan/Black Fibrous Homogeneous	85% Cellulose	15% Non-fibrous (other)		None Detected
050914-2C 241401726-0006	2nd floor - tar- backed paper on fiberglass batting	Gray/Black Fibrous Homogeneous	85% Cellulose 5% Glass	10% Non-fibrous (other)		None Detected
050914-3A 241401726-0007	Front entry/kitchen - faux beach-wood self- stick flooring	Black Non-Fibrous Homogeneous	<1% Cellulose	30% Ca Carbonate 70% Non-fibrous (other)		None Detected
050914-3B 241401726-0008	Front entry/kitchen - faux beach-wood self- stick flooring	Black Non-Fibrous Homogeneous	<1% Cellulose	25% Ca Carbonate 75% Non-fibrous (other)		None Detected

Analyst(s)

Kristin Lopez (10)

William Shedrawy (12)

Lauren Brennan (11)

Gloria V. Oriol, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Wallingford, CT NVLAP Lab Code 200700-0.

Initial report from 05/14/2014 10:58:27

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Sample	Description	Appearance	Non-Asbestos		Asbestos	
			% Fibrous	% Non-Fibrous	% Type	
050914-3C 241401726-0009	Front entry/kitchen - faux beach-wood self-stick flooring	Gray/Black Non-Fibrous Homogeneous	<1% Glass <1% Cellulose	25% Ca Carbonate 75% Non-fibrous (other)		None Detected
050914-4A 241401726-0010	Kitchen - wall tile grout	Gray Non-Fibrous Homogeneous		35% Quartz 65% Non-fibrous (other)		None Detected
050914-4B 241401726-0011	Kitchen - wall tile grout	Gray Non-Fibrous Homogeneous		40% Quartz 60% Non-fibrous (other)		None Detected
050914-4C 241401726-0012	Kitchen - wall tile grout	Gray Non-Fibrous Homogeneous		60% Quartz 40% Non-fibrous (other)		None Detected
050914-5A 241401726-0013	2nd floor - fiberboard sub-floor	Brown Fibrous Homogeneous	100% Cellulose	0% Non-fibrous (other)		None Detected
050914-5B 241401726-0014	2nd floor - fiberboard sub-floor	Brown Fibrous Homogeneous	100% Cellulose	0% Non-fibrous (other)		None Detected
050914-5C 241401726-0015	2nd floor - fiberboard sub-floor	Tan Fibrous Homogeneous	100% Cellulose	0% Non-fibrous (other)		None Detected
050914-6A 241401726-0016	1st floor bathroom - cement board behind shower	Gray Non-Fibrous Homogeneous	<1% Cellulose	20% Quartz 35% Ca Carbonate 45% Non-fibrous (other)		None Detected

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
050914-6B 241401726-0017	1st floor bathroom - cement board behind shower	Gray Non-Fibrous Homogeneous		20% Quartz 35% Ca Carbonate 45% Non-fibrous (other)	None Detected
050914-6C 241401726-0018	1st floor bathroom - cement board behind shower	Gray Non-Fibrous Homogeneous	<1% Cellulose	15% Quartz 5% Ca Carbonate 80% Non-fibrous (other)	None Detected
050914-7A 241401726-0019	Exterior - fiberboard behind aluminum siding	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (other)	None Detected
050914-7B 241401726-0020	Exterior - fiberboard behind aluminum siding	Brown Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (other)	None Detected
050914-7C 241401726-0021	Exterior - fiberboard behind aluminum siding	Brown Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (other)	None Detected
050914-8A 241401726-0022	Living room - paper linoleum underlayment remnants	Brown Fibrous Homogeneous	55% Cellulose	5% Ca Carbonate 40% Non-fibrous (other)	None Detected
050914-8B 241401726-0023	Living room - paper linoleum underlayment remnants	Black Fibrous Homogeneous	60% Cellulose	5% Ca Carbonate 35% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	% Fibrous	Non-Asbestos		Asbestos
				% Fibrous	% Non-Fibrous	% Type
050914-8C 241401726-0024	Living room - paper linoleum underlayment remnants	Brown Fibrous Homogeneous	<1% Glass 70% Cellulose		30% Non-fibrous (other)	None Detected
050914-9A 241401726-0025	Living room - blue/grey self-stick linoleum	Gray/Tan/Blue Fibrous Homogeneous	75% Cellulose		25% Non-fibrous (other)	None Detected
050914-9B 241401726-0026	Living room - blue/grey self-stick linoleum	Gray/Tan/Blue Fibrous Homogeneous	70% Cellulose		30% Non-fibrous (other)	None Detected
050914-9C 241401726-0027	Living room - blue/grey self-stick linoleum	Brown Fibrous Homogeneous	75% Cellulose		25% Non-fibrous (other)	None Detected
050914-10A 241401726-0028	Front bedroom - wall/ceiling texture coat	White Non-Fibrous Homogeneous	<1% Cellulose		45% Ca Carbonate 55% Non-fibrous (other)	None Detected
050914-10B 241401726-0029	Front bedroom - wall/ceiling texture coat	White Non-Fibrous Homogeneous	2% Fibrous (other) <1% Cellulose		50% Ca Carbonate 48% Non-fibrous (other)	None Detected
050914-10C 241401726-0030	Front bedroom - wall/ceiling texture coat	White Non-Fibrous Homogeneous	<1% Cellulose		60% Ca Carbonate 40% Non-fibrous (other)	None Detected
050914-11A 241401726-0031	Living room - white leveling compound (floor)	White Non-Fibrous Homogeneous	<1% Cellulose		35% Ca Carbonate 65% Non-fibrous (other)	None Detected

Analyst(s)

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Sample	Description	Appearance	Non-Asbestos		Asbestos	
			% Fibrous	% Non-Fibrous	% Type	
050914-11B 241401726-0032	Living room - white leveling compound (floor)	White Non-Fibrous Homogeneous	<1% Cellulose	35% Ca Carbonate 65% Non-fibrous (other)		None Detected
050914-11C 241401726-0033	Living room - white leveling compound (floor)	White Non-Fibrous Homogeneous	2% Cellulose	20% Quartz 45% Ca Carbonate 33% Non-fibrous (other)		None Detected

Analyst(s)

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LABORATORY PRODUCTS TRAINING

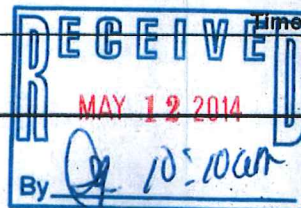
Asbestos Bulk Building Material Chain of Custody

EMSL Order Number (Lab Use Only):

241401726

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4 FAIRFIELD BLVD
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Company : Loureiro Engineering Associates, Inc		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: 100 Northwest Dr		Third Party Billing requires written authorization from third party	
City: Plainville	State/Province: CT	Zip/Postal Code: 06062	Country: US
Report To (Name): Jamie Roche		Telephone #: 860-410-2945	
Email Address: jaroche@Loureiro.com		Fax #: 860-747-8822	Purchase Order:
Project Name/Number: 89 Cooper Ave, Milford		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email	
U.S. State Samples Taken: CT		CT Samples: <input type="checkbox"/> Commercial/Taxable <input checked="" type="checkbox"/> Residential/Tax Exempt	
Turnaround Time (TAT) Options* - Please Check			
<input type="checkbox"/> 3 Hour <input type="checkbox"/> 6 Hour <input type="checkbox"/> 24 Hour <input checked="" type="checkbox"/> 48 Hour <input type="checkbox"/> 72 Hour <input type="checkbox"/> 96 Hour <input type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week			
*For TEM Air 3 hr through 6 hr, please call ahead to schedule. There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.			
PLM - Bulk (reporting limit)		TEM - Bulk	
<input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%)		<input type="checkbox"/> TEM EPA NOB - EPA 600/R-93/116 Section 2.5.5.1	
<input type="checkbox"/> PLM EPA NOB (<1%)		<input type="checkbox"/> NY ELAP Method 198.4 (TEM)	
Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)		<input type="checkbox"/> Chatfield Protocol (semi-quantitative)	
Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)		<input type="checkbox"/> TEM % by Mass - EPA 600/R-93/116 Section 2.5.5.2	
<input type="checkbox"/> NIOSH 9002 (<1%)		<input type="checkbox"/> TEM Qualitative via Filtration Prep Technique	
<input type="checkbox"/> NY ELAP Method 198.1 (friable in NY)		<input type="checkbox"/> TEM Qualitative via Drop Mount Prep Technique	
<input type="checkbox"/> NY ELAP Method 198.6 NOB (non-friable-NY)		Other	
<input type="checkbox"/> OSHA ID-191 Modified		<input type="checkbox"/>	
<input type="checkbox"/> Standard Addition Method			
<input checked="" type="checkbox"/> Check For Positive Stop - Clearly Identify Homogenous Group		Date Sampled: 5-9-14	
Samplers Name: Brett Nicholas		Samplers Signature: [Signature]	
Sample #	HA #	Sample Location	Material Description
050814-1A		1st Floor	Sheetrock Joint Tape
" - 1B		↓	↓
" - 1C		↓	↓
" - 2A		Front Bedroom	Tar-Backed Paper on Fiberglass Balking
" - 2B		Cage Room (Garage)	↓
" - 2C		2nd Floor	↓
" - 3A		Front Entry/Kitchen	Faux Beach-wood Self-Stick Flooring
" - 3B		↓	↓
" - 3C		↓	↓
Client Sample # (s): 1A - 11C		Total # of Samples: 33	
Relinquished (Client): [Signature]		Date: 5-9-14 Time: Feb 6	
Received (Lab):		Date:	
Comments/Special Instructions:			



804/24523296



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

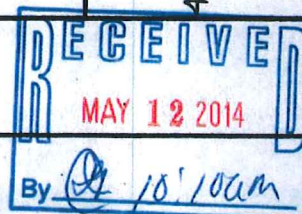
241401726

EMSL ANALYTICAL, INC.
4 FAIRFIELD BLVD
WALLINGFORD, CT 06492
PHONE: (203) 284-5948
FAX: (203) 284-5948

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Description	Location (Area (Air) HA # (Bulk))	Date/Time Sampled
050914- 4A	Wall Tile Grout	Kitchen	5-9-14
" 4B	↓	↓	↓
" 4C	↓	↓	↓
" 5A	Fiberboard Sub-Floor	2nd Floor	
" 5B	↓	↓	↓
" 5C	↓	↓	↓
" 6A	Cement Board Behind Shower	1st Floor Bathroom	
" 6B	↓	↓	↓
" 6C	↓	↓	↓
" 7A	Fiberboard Behind Aluminum Siding	Exterior	
" 7B	↓	↓	↓
" 7C	↓	↓	↓
" 8A	Paper Linoleum Underlayment Remnants	Living Room	
" 8B	↓	↓	↓
" 8C	↓	↓	↓
" 9A	Blue/Grey Self Stick Linoleum		
" 9B	↓	↓	↓
" 9C	↓	↓	↓
" 10A	Wall/Ceiling Texture Coat	Front Bedroom	
" 10B	↓	↓	↓
" 10C	↓	↓	↓
" 11A	White Leveling Compound (Floor)	Living Room	
" 11B	↓	↓	↓
" 11C	↓	↓	↓

*Comments/Special Instructions:



Appendix B

Mold Laboratory Results



EMSL Analytical, Inc.

29 North Plains Highway, Unit # 4 Wallingford, CT 06492

Phone/Fax: 203-284-5948 / (203) 284-5978

<http://www.EMSL.com> / wallingfordlab@emsl.com

Order ID: 241401723
Customer ID: LOUR62
Customer PO:
Project ID:

Attn: Jamie Roche
Loureiro Engineering Associates, Inc.
100 Northwest Drive
Plainville, CT 06062

Phone: (860) 747-6181
Fax: (860) 747-8822
Collected: 05/09/2014
Received: 05/12/2014
Analyzed: 05/13/2014

Proj: 89 COOPER AVE, MILFORD, CT

Test Report: Microscopic Examination of Fungal Spores, Fungal Structures, Hyphae, and Other Particulates from Swab Samples (EMSL Method: M041)

Lab Sample Number:	241401723-0001	241401723-0002			
Client Sample ID:	050914-Mold-1	050914-Mold-2			
Sample Location:	Kitchen beadboard	Front bedroom (walls)			
Spore Types	Category	Category			
Agrocybe/Coprinus	-	-			
Alternaria	-	*Rare*			
Ascospores	-	-			
Aspergillus/Penicillium	*High*	*High*			
Basidiospores	-	-			
Bipolaris++	-	-			
Chaetomium	Rare	-			
Cladosporium	*High*	*High*			
Curvularia	-	-			
Epicoccum	-	-			
Fusarium	-	-			
Ganoderma	-	-			
Myxomycetes++	-	-			
Paecilomyces	-	-			
Rust	-	-			
Scopulariopsis	*Medium*	*Medium*			
Stachybotrys	-	-			
Torula	-	-			
Ulocladium	*Rare*	-			
Unidentifiable Spores	-	-			
Zygomycetes	-	-			
Fibrous Particulate	-	-			
Hyphal Fragment	High	High			
Insect Fragment	-	-			
Pollen	-	-			

Sample Comment: 241401723-0001 Penicillium conidiophores present in sample.
Sample Comment: 241401723-0002 Penicillium conidiophores present in sample.

Category: Count/per area analyzed

Rare: 1 to 10 Low: 11 to 100 Medium: 101 to 1000 High: >1000

Bipolaris++ = Bipolaris/Dreschlera/Exserohilum Myxomycetes++ = Myxomycetes/Periconia/Smut
* = Sample contains fruiting structures and/or hyphae associated with the spores.

No discernable field blank was submitted with this group of samples.

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation of the data contained in this report is the responsibility of the client. ** denotes not detected. Samples received in good condition unless otherwise noted.
Samples analyzed by EMSL Analytical, Inc. Wallingford, CT AIHA-LAP, LLC--EMLAP Accredited #165118

Initial report from: 05/14/2014 08:41:51

For Information on the fungi listed in this report please visit the Resources section at www.emsl.com

Gloria V. Oriol, Laboratory Manager
or Other Approved Signatory



Microbiology Laboratory Chain of Custody
EMSL Order Number (Lab Use Only):

Wallingford, CT
4 Fairfield Blvd
Wallingford, CT 06492
PHONE: (203) 264-5948
FAX: (203) 284-5978

[illegible]

24/504/24523296

Appendix C

Staff and Laboratory Certifications



State of Connecticut

Lookup Detail View

Name

Name

BRETT M NICHOLAS

License Information

lookup

License Type	License Number	Expiration Date	Granted Date	License Name	License Status	Licensure Action Pending Charge
Asbestos Consultant-Inspector	685	07/31/2014	09/18/2007	Brett M. Nicholas	ACTIVE	None

Generated on: 7/11/2013 3:24:59 PM

Messages

Close

Submit

INSTRUCTIONS:

1. Detach and sign each of the cards on this form.
2. Display the large card in a prominent place in your office or place of business.
3. The wallet card is for you to carry on your person. If you do not wish to carry the wallet card, place it in a secure place.

4. The employer's copy is for persons who must demonstrate current licensure/certification in order to retain employment or privileges. The employer's card is to be presented to the employer and kept by them as a part of your personnel file. Only one copy of this card can be supplied to you.


STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH


PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT
THE INDIVIDUAL NAMED BELOW IS CERTIFIED
BY THIS DEPARTMENT AS A

LEAD INSPECTOR

BRETT M NICHOLAS

CERTIFICATION NO.
002212
CURRENT THROUGH
07/31/14
VALIDATION NO.
03-756542


SIGNATURE


COMMISSIONER

EMPLOYER'S COPY

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

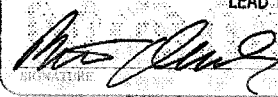
NAME
BRETT M. NICHOLAS

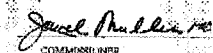
VALIDATION NO.
03-756542

CERTIFICATION NO.
002212

CURRENT THROUGH
07/31/14

PROFESSION
LEAD INSPECTOR


SIGNATURE


COMMISSIONER

Lookup Detail View

Name

Name

LOUREIRO ENGINEERING ASSOCIATES INC

License Information

lookup

License Type	License Number	Expiration Date	Granted Date	License Name	License Status	Licensure Actions or Pending Charges
Lead Consultant Contractor	2068	12/31/2014	12/22/2004	LOUREIRO ENGINEERING ASSOCIATES INC	ACTIVE	None

Generated on: 1/28/2014 2:23:49 PM



AIHA

Laboratory Accreditation
Programs, LLC

AIHA Laboratory Accreditation Programs, LLC

acknowledges that

EMSL Analytical, Inc.

4 Fairfield Boulevard, Wallingford, CT 06492

Laboratory ID: 165118

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC accreditation to the ISO/IEC 17025:2005 international standard, *General Requirements for the Competence of Testing and Calibration Laboratories* in the following:

LABORATORY ACCREDITATION PROGRAMS

- | | |
|--|-----------------------------------|
| <input type="checkbox"/> INDUSTRIAL HYGIENE | Accreditation Expires: |
| <input type="checkbox"/> ENVIRONMENTAL LEAD | Accreditation Expires: |
| <input checked="" type="checkbox"/> ENVIRONMENTAL MICROBIOLOGY | Accreditation Expires: 02/01/2014 |
| <input type="checkbox"/> FOOD | Accreditation Expires: |

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached **Scope of Accreditation**. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2005 and AIHA-LAP, LLC requirements. This certificate is not valid without the attached **Scope of Accreditation**. Please review the AIHA-LAP, LLC website (www.aihaaccreditedlabs.org) for the most current Scope.

Christine Powell

Christine Powell

Chairperson, Analytical Accreditation Board

Revision 11: 01/13/2011

Cheryl O. Morton

Cheryl O. Morton

Director, AIHA Laboratory Accreditation Programs, LLC

Date Issued: 02/01/2012



AIHA Laboratory Accreditation Programs, LLC

SCOPE OF ACCREDITATION

EMSL Analytical, Inc.
4 Fairfield Boulevard, Wallingford, CT 06492

Laboratory ID: **165118**
Issue Date: 02/01/2012

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or revocation. A complete listing of currently accredited Environmental Microbiology laboratories is available on the AIHA-LAP, LLC website at: <http://www.aihaaccreditedlabs.org>

Environmental Microbiology Laboratory Accreditation Program (EMLAP)

Initial Accreditation Date: 06/01/2004

EMLAP Category	Field of Testing (FoT)	Method	Method Description (for internal methods only)
Fungal	Air - Culturable	M005 - Fungal Agar	In-house: Analysis of Bulk Specimens or Swabs for Fungi by Culture on Agar Plates and the Analysis of Fungi from Air samples collected on Agar Plates
	Bulk - Culturable		
	Surface - Culturable		
	Air - Direct Examination	05-TP-003.5 SOP	Analysis of Airborne Fungal Spores, Hyphal Fragments, Pollen, Insect Fragments, Skin Fragments and Fibrous Particulates by Optical Microscopy of Spore Trap Samples
	Bulk - Direct Examination	M041 Direct Exam ver2.1	In-house: Microscopic examination of Surface Fungal Spores, Fungal Structures, Hyphae, Pollen, Insect Fragments and Fibrous Material
	Surface - Direct Examination		
Bacterial	Air - Culturable	M009 - Bacterial Agar - ver2	Standard Operating Procedure for the Analysis of Bulk Specimens or Swabs for Bacteria by Culture on Agar Plates and the Analysis of Bacteria from Air Samples Collected on Agar Plates
	Bulk - Culturable		
	Surface - Culturable		

The laboratory participates in the following AIHA-LAP, LLC-approved proficiency testing programs:

- ✓ Fungal Culturable
- ✓ Bacterial Culturable
- ✓ Fungal Direct Examination

State of Connecticut, Department of Public Health

Approved Environmental Laboratory

THIS IS TO CERTIFY THAT THE LABORATORY DESCRIBED BELOW HAS BEEN APPROVED BY THE STATE DEPARTMENT OF PUBLIC HEALTH PURSUANT TO APPLICABLE PROVISIONS OF THE PUBLIC HEALTH CODE AND GENERAL STATUTES OF CONNECTICUT, FOR MAKING THE EXAMINATIONS, DETERMINATIONS OR TESTS SPECIFIED BELOW WHICH HAVE BEEN AUTHORIZED IN WRITING BY THAT DEPARTMENT.

EMSL ANALYTICAL, INC. - CT

LOCATED AT 4 Fairfield Blvd. IN Wallingford, CT 06492

AND REGISTERED IN THE NAME OF Gloria Oriol

THIS CERTIFICATE IS ISSUED IN THE NAME OF Gloria Oriol WHO HAS BEEN DESIGNATED

BY THE REGISTERED OWNER/AUTHORIZED AGENT TO BE IN CHARGE OF THE LABORATORY WORK COVERED BY THIS CERTIFICATE OF APPROVAL AS FOLLOWS:

Drinking Water, Non-potable Water/Wastewater

Examination for:
Bacteria

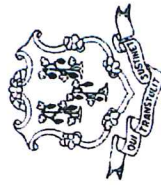
ASBESTOS

Examination for:
Air - PCM, TEM Bulk Materials - PLM, TEM
Water - TEM

SEE COMPUTER PRINT-OUT FOR SPECIFIC TESTS APPROVED

THIS CERTIFICATE EXPIRES September 30, 2014 AND IS REVOCABLE FOR CAUSE BY THE STATE DEPARTMENT OF PUBLIC HEALTH

DATED AT HARTFORD, CONNECTICUT, THIS 28th DAY OF September 2012



Registration No.

PH-0322

SUZANNE BLANCAFLOR, MS
CHIEF, ENVIRONMENTAL HEALTH SECTION



State of Connecticut

CITY OF MILFORD

70 West River Street Milford, CT 06460 Ph: 203 783-3234 fax: 203 783-3690



Permit No. Z-14-178

Zoning Permit

VALUE: \$250000.00

FEE PAID: \$60.00

DATE ISSUED: 7/23/2014

PERMIT FOR: Site Improvements

This certifies that ROBINSON LAURIE L

89 COOPER AVE

has permission to conduct activities at:

as follows: By CAM approval granted July 15, 2014. Construct a new single family dwelling. Foundation walls with 4 Smart Vents, and dumb waiter. Interior stair. Second floor: 24'x11'-6" deck with stairs. Living/dining/kitchen, full bath, dumb waiter. Third floor: 3 bedrooms, full bath, stairway. Attic: Unfinished, mechanicals. No future rooms. Height of 34'-8" to midpoint.

provided that the person accepting this permit shall in every respect conform to the terms of the application therefore on file in this office, and to the zoning regulations for the City of Milford.

NOTE: The recipient of this permit accepts this permit on the condition that, as owner or as agent of the owner, he/she agrees to comply with all regulations of the City of Milford, and any condition set forth by the Planning & Zoning Board, Zoning Board of Appeals, or other body having authority.

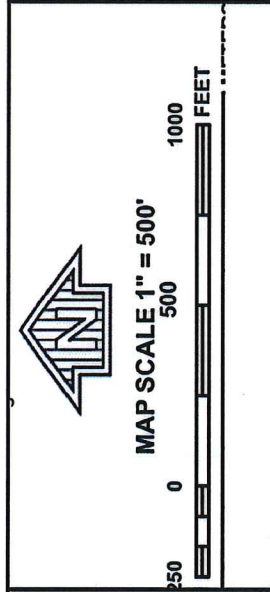
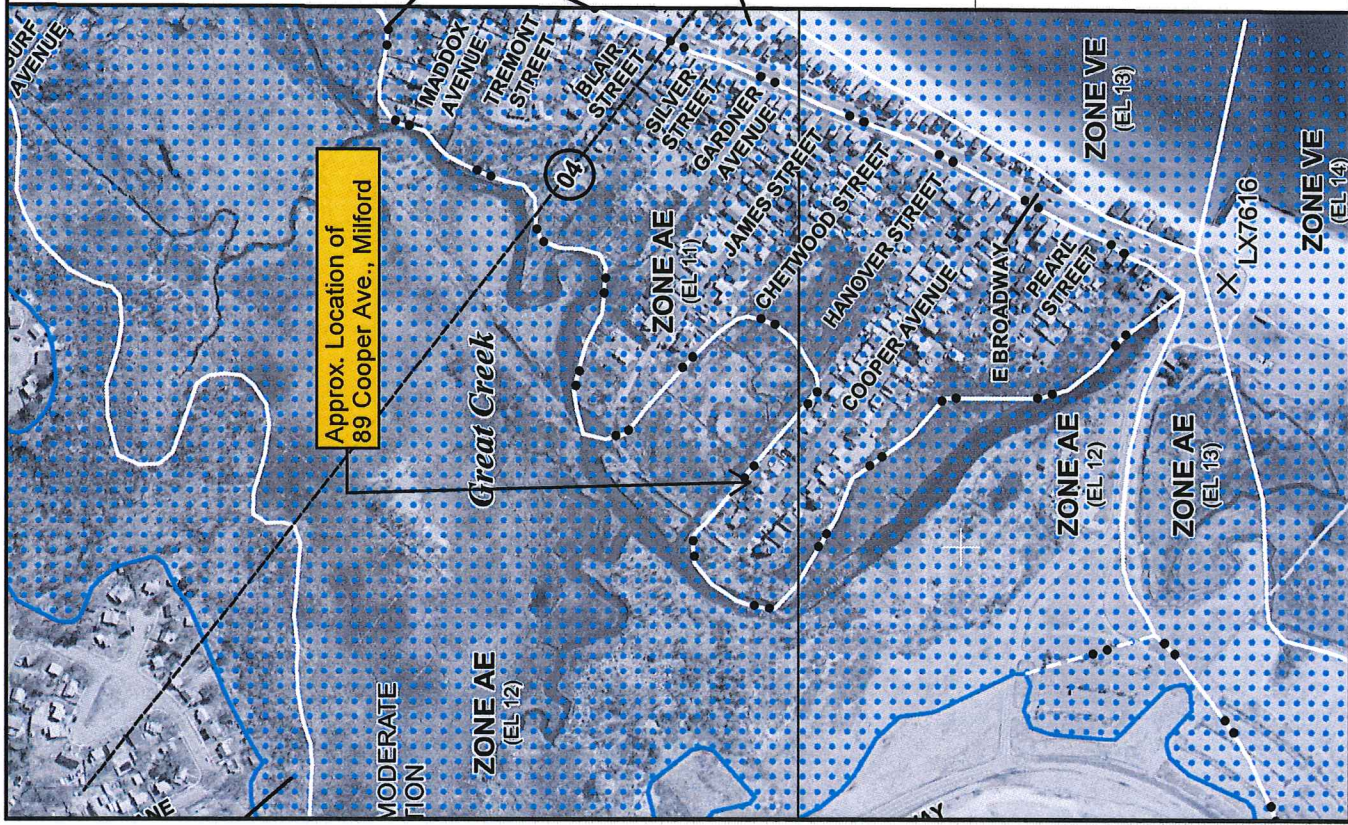
Restrictions:

Zoning Enforcement Official

7/23/2014

Date

**This Card Must Be Displayed in a Conspicuous Place on the Premises
and Not Torn Down or Removed**



NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP
NEW HAVEN COUNTY,
CONNECTICUT
(ALL JURISDICTIONS)

PANEL 0529J

PANEL 529 OF 635
 (SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
MILFORD, CITY OF	090082	0529	J

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

MAP NUMBER
 09009C0529J
MAP REVISED
 JULY 8, 2013

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov



City of Milford, Connecticut

- Founded 1639 -

Inland Wetlands Office
inlandwetland@ci.milford.ct.us

70 West River Street
Milford, CT 06460-3317
Tel 203-783-3256
FAX 203-783-3303

July 15, 2014

Mr. Rafael A. Amaya II
Amaya Architects
284 Racebrook Road
Orange, Connecticut 06477

Re: IW-JR-14-034: 89 Cooper Ave; Map 26 Block 458 Parcel 51E; Laurie L. Robinson; Proposal to raise existing structure and construction of a new elevated residence with work proposed within 100' of a wetland or watercourse in the South Central Shoreline Watershed.

Dear Mr. Amaya:

The Milford Inland Wetlands and Watercourses Agency has reviewed the following information:

- "Zoning Location Survey Site Plan Prepared for Laurie Robinson 89 Cooper Avenue, Milford, Connecticut" by Scott Mundy, 1 sheet dated 8/23/08 last revised 5/29/14, received 7/9/14
- "Property Survey Prepared for Laurie Robinson 89 Cooper Avenue, Milford, Connecticut" by Scott Mundy, 1 sheet dated 8/23/08 received 7/9/14.
- Soil Report dated 7/3/14 by Jim McManus of JMM Wetland Consulting Services, LLC,

Based on a review of the site, the above information, the MIWA maps and Regulations it reveals work is proposed within 100' of wetlands. The proposed work is to raze the existing structure that is 9.6' from the wetland line and construct a new residence 30' from the wetland line. With proper erosion and sedimentation control and best management practices for construction this project will have a minimal impact. Therefore, I am issuing this Jurisdictional Ruling for removal of the existing structures and construction of a 3-story residence with the removal of the existing shed and fencing in the wetlands with the following conditions:

- Please note that the Assessor's Information & Area on the Zoning Location Survey showing the proposed home has the *wrong* Map Block Parcel and Area information for this site.
- The silt fencing is to be located a minimum of 10' from the wetland line;
- No soils or material may be stockpiled to the rear of the house;
- Excavated soils and materials *must* be removed from the site;
- Sedimentation and Erosion controls must be properly installed prior to the start of construction as shown on the plan to prevent material from entering wetlands on and adjacent to the property;

Mr. Rafael A. Amaya II
Amaya Architects

Page 2 of 2

July 15, 2014

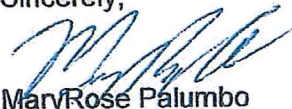
Re: IW-JR-14-034; 89 Cooper Ave; Map 26 Block 458 Parcel 51E; Laurie L. Robinson; Proposal to raise existing structure and construction of a new elevated residence with work proposed within 100' of a wetland or watercourse in the South Central Shoreline Watershed.

- Sedimentation and Erosion controls must be maintained and properly functioning until the site is stabilized with vegetation;
- Existing shed and fencing to be removed from wetlands on City of Milford property, the area is to be left as natural vegetation, not to be maintained as lawn.

Please be advised that this letter applies only to the specific plans noted above. Any revision of these plans will require further review by this Agency. You are responsible for contacting other permitting authorities to determine if additional Local, State and Federal permits are required for this project. No fill material may be placed in the wetland or upland review area without additional review by the MIWA. Best Management practices and proper sedimentation and soil erosion controls as found in the "2002 Connecticut Guidelines for Sedimentation and Erosion Controls" should be implemented on site to prevent degradation of wetlands on and adjacent to the property.

Should you have any questions concerning this matter, please contact the Inland Wetlands Agency Office at 203-783-3256.

Sincerely,



MaryRose Palumbo
Inland Wetlands Compliance Officer

cc: DPLU
Planning & Zoning
City Engineer
Scott Mundy Land Surveyor
Laurie L. Robinson



City of Milford, Connecticut

Founded 1639

70 West River Street - Milford, CT 06460-3317

Tel 203-783-3245 FAX 203-783-3303

Website: www.ci.milford.ct.us

E-mail: planning@ci.milford.ct.us

Planning and Zoning
Office

David B. Sulkis, A.I.C.P.
City Planner

PLANNING & ZONING BOARD REVIEW TRANSMITTAL

RE: 89 Cooper Avenue

DATE: June 16, 2014

TO: _____ City Clerk
_____ Conservation Commission*530-4694
_____ Greater Bridgeport RPA
_____ Health Administrator
_____ Police Department
_____ Sewer Commission
☒ 1 DEEP- CAM Report
Mail to: John Gaucher, DEEP, 79 Elm St.
Hartford CT 06106
DEEP Permitting
Mail to: Sue Jacobson, DEEP

☒ 1 City Engineer
☒ 1 Fire Marshall 6/20/14
_____ Inland/Wetlands Comm.
☒ 1 Open Space c/o Mayor*783-3329
☒ 1 Public Works Director
_____ South Central Regional
_____ Tree Commission*878-4895
_____ Resource Report
3 Planning & Zoning Office

SUBJECT: New Single Family Residence

ADDRESS OF PROPERTY: 89 Cooper Avenue

MAP 22 BLOCK 458 PARCEL 38 ZONE R-5

APPLICANT/AGENT: Rafael Amaya, Amaya Architects
Phone: (203)795-5656 Email: ramayarchitects@aol.com

PROPERTY OWNER: Laurie Robinson

PLAN TITLE: Zoning Location Survey/Architectural Plans (Sheets A1, A2, A2.1, A3, A3.1)

PREPARED BY: Scott K. Mundy L.S./ Amaya Architects

DATE OF PLANS: 5/29/2014 and 6/9/2014

DATE RECEIVED BY PLANNING & ZONING: June 13, 2014

PLANNING & ZONING CONTACT: Emmeline Harrigan, AICP, CFM

These plans/documents have been received and are transmitted to your office for review prior to the submission of a Coastal Site Plan Review to the Planning & Zoning Board.

ALL COMMUNICATIONS REGARDING THE REVIEW SHALL BE DIRECTED TO THE
APPLICANT/AGENT WITH A COPY TO THE PLANNING & ZONING OFFICE

10 sets of plans will be required for P & Z Board distribution.

*These commission reviews must be returned within 10 working days.

ADMINISTRATIVE SUMMARY FORM

HEARING DATE: July 1, 2014

APPLICATION REQUEST: Coastal Site Plan Review for New SFR

ZONE: R-5 **ADDRESS:** 89 Cooper Avenue

APPLICANT: Laurie Robinson (Property Owner)

REPRESENTATIVES: Rafael Amara, AIA (Architect)

REVIEWS

<u>DEPARTMENTS:</u>	<u>RECOMMEND</u>	<u>DENIAL</u>	<u>NEUTRAL</u>	<u>CONDITIONS</u>
Engineering	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Fire Marshall	<u> </u>	<u> </u>	<u>June 20, 2014</u>	<u> </u>
Public Works	<u> </u>	<u> </u>	<u> </u>	<u> </u>
DEEP/OSLIP	<u> </u>	<u> </u>	<u>June 18, 2014</u>	<u>See Below</u>

STAFF REVIEW / COMMENTS

- 4,380 SF lot located in the AE-11 Flood Zone as shown on Zoning Location Survey by Scott K. Mundy L.S. dated 8/23/2008 and revised 5/29/2014 (SP1).
- Proposed 3-story house with garage under as shown on Amaya Architects plans (Sheets A1, A2, A2.1, A3, A3.1) meets AE-11 standards per Section 5.8.13.4, but is currently designed with open piers with a proposed finish floor elevation of 16.2. Should future 1st story enclosures be added, these need to be reviewed by staff for adequate flood venting and must be submitted for an additional zoning permit.
- Proposed construction mitigation measures reviewed by DEEP/OSLIP as shown on Zoning Location Survey (referenced above) are adequate. State DEEP permitting is not required as the site falls above the elevation 2.9 determined as their jurisdiction behind the Great Creek tide gate.
- Engineering and Public Works comments regarding storm water management and required public right-of-way improvements are still pending, but are expected prior to the July 1st hearing date.

Reviewer: Emmeline Harrigan, AICP, CFM



Emmeline Harrigan

From: Gaucher, John [John.Gaucher@ct.gov]
Sent: Wednesday, June 18, 2014 9:09 AM
To: Emmeline Harrigan; Gary Wassmer
Cc: David Sulkis; Phyllis Leggett; 'ramayarchitects@aol.com'; Jacobson, Susan
Subject: RE: 89 Cooper Avenue/CAM Site Plan Review

Importance: Low

Emmeline,

We have reviewed the above-referenced proposal for consistency with Connecticut Coastal Management Act policies and have no comments for the Zoning Board's consideration.

However, if any part of the work area lies at or below 2.9' NAVD (MHW), then authorization from this Office will be necessary prior to the commencement of work. We have an expedited permit process specifically for elevating houses behind the tide gate.

For more information on the application process, please contact Sue Jacobson at 860-424-3693 or via email.

Please let me know if you have any questions or if you need any additional information.

John Gaucher
Environmental Analyst 3
Office of Long Island Sound Programs
79 Elm Street
Hartford, CT 06106

Phone 860.424.3660
fax 860.424.4054



From: Emmeline Harrigan [mailto:EHarrigan@ci.milford.ct.us]
Sent: Tuesday, June 17, 2014 8:44 AM
To: Gaucher, John; Gary Wassmer
Cc: David Sulkis; Phyllis Leggett
Subject: 89 Cooper Avenue/CAM Site Plan Review

Hi John and Gary,

The above is one the CDBG-DR post-Sandy grant applications and the homeowner is a City of Milford employee. They are requesting to be placed on the July 1st agenda. John — you should be receiving this via overnight sometime today.

Please let me know if you think that you can review the above quickly. If so – then I can complete my report for it before I finish here at the City. I am here all next week.

Thanks so much,
Emmeline



State of Connecticut

City of Milford

70 West River Street Milford, CT 06460 Ph: 203 783-3234 fax: 203 783-3690

Application for Building Permit



RECEIPT

Application No: **TB-14-703**
Job Location: **89 COOPER AVE**
Permit For: **SANDY - New Construction**

Date Received: **7/23/2014**

Contractor's Name:

Phone:

Contractor's Address:

City:

State:

Zip Code:

State Lic. No:

Phone:

(Home)Owner's Name: **ROBINSON LAURIE L**

(Home)Owner's Address: **89 COOPER AV**

Work Description: **By CAM approval granted July 15, 2014. Construct a new single family dwelling. Foundation walls with 4 Smart Vents, and dumb waiter. Interior stair. Second floor: 24'x11'-6" deck with stairs. Living/dining/kitchen, full bath, dumb waiter. Third floor: 3 bedrooms, full bath, stairway. Attic: Unfinished, mechanicals. No future rooms. Height of 34'-8" to midpoint.**

Total Value Of Work To Be Performed: **\$250,000.00**

Structure Size:	0.00	0.00	0.00
	Width	Depth	Area

I hereby swear and attest that I will require proof of workers' compensation insurance for every contractor, subcontractor, or other worker before he/she engages in work on the above property in accordance with the Workers' Compensation Act (Chapter 568).
I understand that pursuant to 31-275 C.G.S., officers of a corporation and partners in a partnership may elect to be excluded from coverage by filing a waiver with the appropriate District Office; and that a sole proprietor of a business is not required to have coverage unless he files his intent to accept coverage.
I hereby certify that I am the owner of the property which is the subject of this application or the authorized agent of the property owner and have been authorized to make this application. I understand that when a permit is issued, it is a permit to proceed and grants no right to violate the Connecticut State Building Code or any other code, ordinance or statute, regardless of what might be shown or omitted on the submitted plans and specifications. All information contained within is true and accurate to the best of my knowledge and belief.
All permits approved are subject to inspections performed by a representative of this office. Requests for inspections must be made at least 24 hours in advance.

Signed: **Amaya Architects**

7/23/2014

(203) 795-5656

Applicant

Date

Telephone No.

Estimated Construction Costs / Permit Fees

Total Project Cost :	\$250,000.00	Payment Date	Amount Paid	Check No
Total Permit Fee:	\$65.00			
Total Permit Fee Paid:	\$0.00			

THIS IS NOT A PERMIT



Amaya Architects
American Institute of Architects

July 23, 2014

Mr Stephen H Harris
Zoning Enforcing Officer
City of Milford, CT
70 West River Street
Milford, CT

RE:

Venting Calculations
89 Cooper Avenue,
Milford, Connecticut

Dear Sir:

In response to your request for Vent Calculations for the above captioned project, please note the following:

- The existing first floor of the proposed residence is 29'-0" x 27'-0" for a total of 783 square feet.
- The Smart Vent specified is certified to provide flood relief for 200 square feet -see attached specifications - .
- Accordingly, $783/200 = 3.915$. We are providing 4 vents for the first floor as described in drawing A1 of the Construction Documents.

Based on the fact that based on your own assessment, this was the only issue pending and we have addressed all your questions, we request you issue the zoning permit.

We thank you in advance.

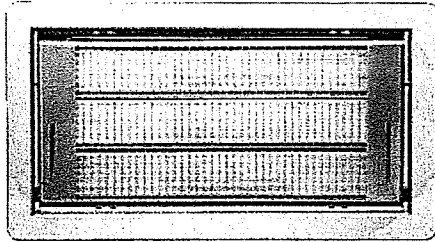
Should you have any questions please call our office.

Respectfully,

Rafael A. Amaya, AIA
Amaya Architects



SMART VENT® - Model: 1540-510



Model #: 1540-510

Installation Type: Masonry Wall

Style: louvered

Dimensions: 16" x 8"

Rough Opening: 16¼" x 8¼" (one block, or CMU)

Finish: Stainless Steel (Standard)

Available Powder Coat Colors For Special Order:



White



Wheat



Gray



Black



Stainless (standard)

Optional Accessories:

Fire Damper, Interior Trim Flange & Inner Sleeve, Rain Shield

Other Models Available: Insulated FLOOD VENT, Overhead Garage Door Model, Stacked and Quad Configurations, Models for Wood Studded Wall Applications and Pour in Place Buck Systems.

There's more online at www.smartvent.com

Dealer Locator, Installer Locator, Cad Drawings, Installation Instructions, Technical Specifications, Frequently Asked Questions, Videos, Testimonials, Resource Library Database, Insurance Forms.



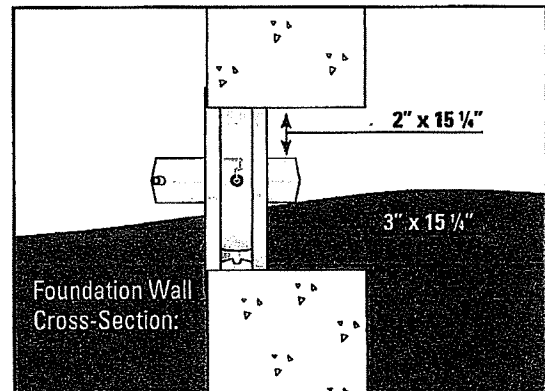
Rapidly rising floodwater can put extreme pressure on the foundation walls causing improperly vented structures to buckle and collapse. SMART VENTS® quickly and efficiently equalize the pressure and minimize damage.

How it works:

Flood Protection: The SMART VENT® door is latched closed until flood water enters. Entering flood water lifts the patented internal floats which unlatches and rotates the door open. This allows the flood water to automatically enter and exit through the frame opening, relieving the pressure from your foundation walls.

Ventilation: A bimetal coil (like a thermostat, no electricity is needed) automatically opens and closes the ventilation louvers as temperature changes. They will be closed when it is freezing outside and open when it is warm outside to provide natural ventilation.

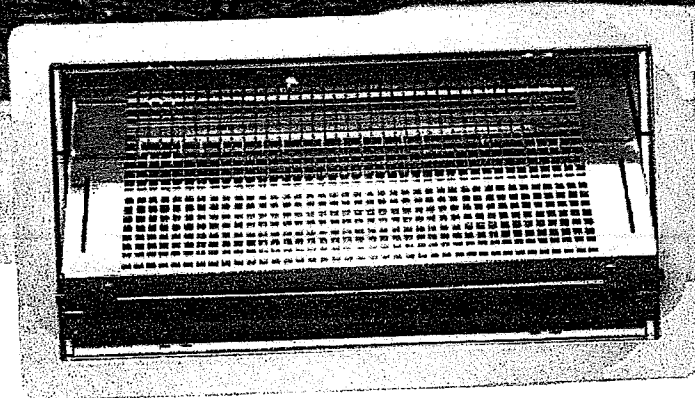
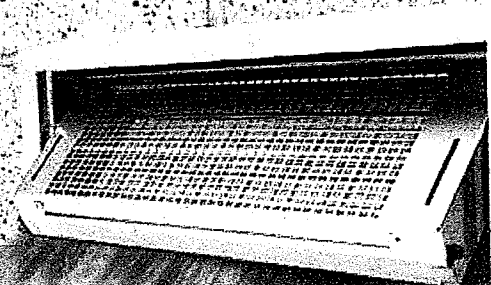
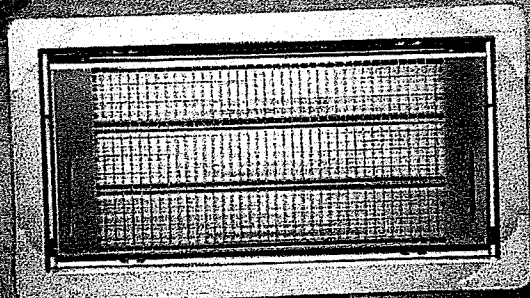
Important note: SMART VENT® does not rely on the louvers to let floodwater in and out. Regardless of the louvers' position, opened or closed, when floodwater flows into the door, the internal floats release the door to rotate open to relieve the hydrostatic pressure. The louvers and pest screen are rotated out of the path of the floodwater. The temperature-controlled louvers are for ventilation purposes only.



How does one SMART VENT® provide so much coverage?

You may have heard that FEMA requires that flood openings provide one square inch of opening per one square foot of enclosed area, referring to dimensions of the opening in proportion to the space to be vented. This is only partially correct. FEMA's regulations and guidelines do state that a non-engineered flood vent solution must (among other requirements) provide one square inch of opening per square foot of enclosed area to be vented. However, all SMART VENT® products are ICC-ES certified engineered openings. They have been designed, engineered, tested, rated, and certified to provide flood relief so efficiently that only one unit is needed for 200 square feet of enclosed area. It would be our pleasure to contact your code official, surveyor, or insurance agent if they require more information.

SMART VENT® - Model: 1540-510



Dual Function SMART VENT® **Superior Flood Protection and Natural Air Ventilation**

ICC-ES Evaluated and FEMA Accepted Foundation Flood Vents

- Potential savings on homeowner's NFIP premiums
- Preserves aesthetic beauty of a home by requiring 2/3 less vents
- Each vent certified to protect 200 sq. ft. of your home
- Code Compliant, FEMA accepted, ICC-ES Evaluated
- All Stainless Steel construction meets or exceeds flood and corrosion resistance code requirements
- Patented automatic floats release bi-directional flood door
- Temperature controlled louvers automatically open in warm weather and close in cold weather

One 16" x 8" vent is certified to cover 200 square feet of enclosed area for flood protection and 51 square inches for ventilation

SMART VENT® models are certified to provide flood protection and ventilation. This model is used for a home with a crawl space or any enclosed area that desires natural air ventilation and flood protection. All stainless steel construction resists weather and pest.



SMART VENT

www.smartvent.com • 877-441-8368



Douglas A. Edo
Chief

Milford Fire Department

72 New Haven Avenue
Milford, CT 06460

Administrative Offices
Tel. (203) 874-6321
Fax (203) 783-3744

TO: AMAYA ARCHITECTS
ATTN: RAFAEL AMAYA

FROM: GARY R. BAKER
ASSISTANT CHIEF/DEPUTY FIRE MARSHAL

DATE: JUNE 20, 2014

SUBJECT: 89 COOPER AVENUE - RESIDENTIAL - SITE PLAN
NEW SINGLE FAMILY RESIDENCE

Gary R. Baker #0168

This office reviewed the site plan for 89 Cooper Avenue as submitted to our office on June 17, 2014. The plan meets the requirements for Fire Department access.

In addition, the plan meets the requirements with regard to the water standard, specifically fire hydrants and water supply.

**THIS OFFICE HAS NO OBJECTION TO THE
APPLICABLE PERMIT BEING ISSUED.**

cc: Mr. David B. Sulkis, A.I.C.P.
City Planner
Planning & Zoning
dsulkis@ci.milford.ct.us

cc: Ronald Wetmore
Milford Fire Department
Battalion Chief - Planning
rwetmore@ci.milford.ct.us

cc: Phyllis Leggett
Planning & Zoning
pleggett@ci.milford.ct.us

Make Every Day - Fire Prevention Day